

R&S® SMW200A

Vector Signal Generator

Open Source Acknowledgment



1412966600
Version 47.00

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- R&S®SMW200A

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1 Introduction

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

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

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

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

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babel-plugin-dynamic-import-node	2.3.3	MIT License
babel-plugin-istanbul	6.1.1	BSD 3-clause "New" or "Revised" License
babel-plugin-jest-hoist	27.5.1	MIT License
babel-plugin-polyfill-corejs2	0.3.1	MIT License
babel-plugin-polyfill-corejs3	0.5.2	MIT License
babel-plugin-polyfill-regenerator	0.3.1	MIT License
babel-preset-current-node-syntax	1.0.1	MIT License
babel-preset-jest	27.5.1	MIT License
babel/code-frame	7.18.6	MIT License
babel/compat-data	7.17.7	MIT License
babel/core	7.17.8	MIT License
babel/generator	7.21.1	MIT License
babel/helper-annotate-as-pure	7.16.7	MIT License
babel/helper-annotate-as-pure	7.18.6	MIT License
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babel/helper-explode-assignable-expression	7.16.7	MIT License
babel/helper-function-name	7.21.0	MIT License
babel/helper-hoist-variables	7.18.6	MIT License
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babel/plugin-transform-template-literals	7.16.7	MIT License
babel/plugin-transform-typeof-symbol	7.16.7	MIT License
babel/plugin-transform-unicode-escapes	7.16.7	MIT License
babel/plugin-transform-unicode-regex	7.16.7	MIT License
babel/preset-env	7.16.11	MIT License
babel/preset-modules	0.1.5	MIT License
babel/runtime	7.16.7	MIT License
babel/template	7.16.7	MIT License
babel/template	7.20.7	MIT License
babel/traverse	7.21.2	MIT License
babel/types	7.21.2	MIT License
balanced-match	1.0.2	MIT License
base-files	3.0.14	GPL-2.0-only License
base-passwd	3.5.29	GPL-2.0-only License
base64-js	1.5.1	MIT License
bcoe/v8-coverage	0.2.3	MIT License
bcrypt-pbkdf	1.0.2	BSD 3-clause "New" or "Revised" License
big.js	5.2.2	MIT License
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binutils	2.38	GPL-3.0-only License
bl	4.1.0	MIT License
blob-util	2.0.2	Apache License 2.0
bluebird	3.7.1	MIT License
bluebird	3.7.2	MIT License

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Boost	1.64.0	Boost Software License 1.0
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botan	2.19.3	BSD 2-clause "Simplified" License
brace-expansion	1.1.11	MIT License
brace-expansion	2.0.1	MIT License
braces	3.0.2	MIT License
brotli	1.0.9	MIT License
browser-process-hrtime	1.0.0	BSD 2-clause "Simplified" License
browserslist	4.20.2	MIT License
bser	2.1.1	Apache License 2.0
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buffer-crc32	0.2.13	MIT License
buffer-from	1.1.2	MIT License
builtins	1.0.3	MIT License
busybox	1.35.0	GPL-2.0-only License AND bzip2 License
bzip2	1.0.8	bzip2 and libbzip2 License
bzip2	1.0.8	bzip2 License
cacache	15.3.0	ISC License
cacache	16.0.3	ISC License
cachedir	2.3.0	MIT License
call-bind	1.0.2	MIT License
callsites	3.1.0	MIT License
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camelcase	6.3.0	MIT License
caniuse-lite	1.0.30001320	Creative Commons Attribution 4.0
caseless	0.12.0	Apache License 2.0
ccid	1.4.33	LGPL-2.1-or-later License
chalk	2.4.2	MIT License
chalk	4.1.0	MIT License
chalk	4.1.2	MIT License

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chokidar	3.5.3	MIT License
chownr	2.0.0	ISC License
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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
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cli-cursor	3.1.0	MIT License
cli-spinners	2.6.1	MIT License
cli-table3	0.6.3	MIT License
cli-truncate	2.1.0	MIT License
cli-width	3.0.0	ISC License
cliui	6.0.0	ISC License
clone	1.0.4	MIT License
clone-deep	4.0.1	MIT License
CMSIS	5.7.0	Apache License 2.0
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color-convert	2.0.1	MIT License
color-name	1.1.3	MIT License
color-name	1.1.4	MIT License

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combined-stream	1.0.8	MIT License
commander	2.20.3	MIT License
commander	5.1.0	MIT License
common-tags	1.8.2	MIT License
comondir	1.0.1	MIT License
concat-map	0.0.1	MIT License
console-control-strings	1.1.0	ISC License
convert-source-map	1.8.0	MIT License
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core-js-compat	3.21.1	MIT License
core-util-is	1.0.2	MIT License
cosmiconfig	6.0.0	MIT License
cpprest	2.10.18	MIT License
cppzmq	4.7.1	MIT License
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	7.73.0.0	curl License
curl	7.82.0.0	curl License
curl	7.82.0	curl License
Curl	7.87.0	curl License
cypress	12.7.0	MIT License
cypress/request	2.88.11	Apache License 2.0
cypress/schematic	2.5.0	MIT License
cypress/ webpack-preprocessor	5.17.0	MIT License

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data-urls	2.0.0	MIT License
dayjs	1.11.7	MIT License
dbus	1.14.6	Academic Free License v2.1 OR GPL-2.0-or-later License
DCPLib	0.2	BSD 3-clause "New" or "Revised" License
debug	3.2.7	MIT License
debug	4.3.3	MIT License
debug	4.3.4	MIT License
decamelize	1.2.0	MIT License
decimal.js	10.3.1	MIT License
dedent	0.7.0	MIT License
deep-is	0.1.4	MIT License
deepmerge	4.2.2	MIT License
defaults	1.0.3	MIT License
define-lazy-prop	2.0.0	MIT License
define-properties	1.1.3	MIT License
delayed-stream	1.0.0	MIT License
delegates	1.0.0	MIT License
depd	1.1.2	MIT License
detect-newline	3.1.0	MIT License
dfu-programmer	0.7.1	GPL-2.0-only License
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
Docker-compose stack for Prometheus monitoring	ae31b4743bf11a9ff59a88edc0197f36e2e3eb21	MIT License
doctrine	3.0.0	Apache License 2.0
domexception	2.0.1	MIT License
dotenv	10.0.0	BSD 2-clause "Simplified" License
double-conversion (V8 project)	unspecific	BSD 3-clause "New" or "Revised" License

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dropbear	2020.81	MIT License AND BSD 3-Clause License AND BSD 2-Clause License AND Public Domain
e-wm-16	1.0.13	Enlightenment License (e16)
e2fsprogs	1.46.1	GPL-2.0-only License AND LGPL-2.0-only License AND BSD 3-Clause License AND MIT License
e2fsprogs	1.46.5	GPL-2.0-only License AND LGPL-2.0-only License AND BSD 3-Clause License AND MIT License
ecc-jsbn	0.1.2	MIT License
Eigen	3.4.0	Mozilla Public License 2.0
ejs	3.1.8	Apache License 2.0
electron-to-chromium	1.4.92	ISC License
elfutils	0.186	GPL-2.0-only License AND GPL-2.0-or-later License AND LGPL-3.0-or-later License AND GPL-3.0-or-later License
emittery	0.8.1	MIT License
emoji-regex	8.0.0	MIT License
emojis-list	3.0.0	MIT License
encoding	0.1.13	MIT License
encodings	1.0.6	Public Domain
end-of-stream	1.4.4	MIT License
enhanced-resolve	5.9.2	MIT License
enquirer	2.3.6	MIT License
env-paths	2.2.1	MIT License
err-code	2.0.3	MIT License
error-ex	1.3.2	MIT License
es-module-lexer	0.9.3	MIT License
escalade	3.1.1	MIT License
escape-string-regexp	1.0.5	MIT License

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escape-string-regexp	2.0.0	MIT License
escape-string-regexp	4.0.0	MIT License
escodegen	2.0.0	BSD 2-clause "Simplified" License
eslint	8.7.0	MIT License
eslint-scope	5.1.1	BSD 2-clause "Simplified" License
eslint-scope	7.1.1	BSD 2-clause "Simplified" License
eslint-utils	3.0.0	MIT License
eslint-visitor-keys	2.1.0	Apache License 2.0
eslint-visitor-keys	3.3.0	Apache License 2.0
eslint/eslintrc	1.2.1	MIT License
espre	9.3.1	BSD 2-clause "Simplified" License
esprima	4.0.1	BSD 2-clause "Simplified" License
esquery	1.4.0	BSD 3-clause "New" or "Revised" License
esrecurse	4.3.0	BSD 2-clause "Simplified" License
estraverse	4.3.0	BSD 2-clause "Simplified" License
estraverse	5.3.0	BSD 2-clause "Simplified" License
esutils	2.0.3	BSD 2-clause "Simplified" License
eventemitter2	6.4.7	MIT License
events	3.3.0	MIT License
execa	4.1.0	MIT License
execa	5.1.1	MIT License
executable	4.1.1	MIT License
exit	0.1.2	MIT License
expat	2.5.0	MIT License
Expat XML Parser Toolkit	2.4.8	MIT License
expect	27.5.1	MIT License
extend	3.0.2	MIT License
external-editor	3.1.0	MIT License
extract	0.9	BSD 2-Clause License AND GPL-2.0-or-later License
extract-zip	2.0.1	BSD 2-clause "Simplified" License
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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
fd-slicer	1.1.0	MIT License
figures	3.2.0	MIT License
file-entry-cache	6.0.1	MIT License
file-saver	2.0.5	MIT License
filelist	1.0.4	Apache License 2.0
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find-cache-dir	3.3.2	MIT License
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form-data	2.3.3	MIT License
form-data	3.0.1	MIT License

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FreeRTOS	10.0.1	MIT License
FreeRTOS	10.5.0	MIT License
freetype	2.11.1	Freetype Project License OR GPL-2.0-or-later License
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fs-monkey	1.0.3	The Unlicense
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get-package-type	0.1.0	MIT License
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get-stream	6.0.1	MIT License
getos	3.2.1	MIT License
getpass	0.1.7	MIT License
glib-2.0	2.72.3	LGPL-2.1-or-later License AND BSD 3-Clause License AND Public Domain
glibc	2.35	GPL-2.0-only License AND LGPL-2.1-only License

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glob	7.1.4	ISC License
glob	7.2.0	ISC License
glob-parent	5.1.2	ISC License
glob-parent	6.0.2	ISC License
glob-to-regexp	0.4.1	BSD 2-clause "Simplified" License
global-dirs	3.0.1	MIT License
globals	11.12.0	MIT License
globals	13.13.0	MIT License
gmp	6.2.1	GPL-2.0-or-later License OR LGPL-3.0-or-later License
gnutls	3.7.4	GPL-3.0-or-later License AND LGPL-2.1-or-later License
Google commandline flags module for C++	2.2.2	BSD 3-clause "New" or "Revised" License
Google Protobuf protocol buffers library	2.6.1	BSD 3-clause "New" or "Revised" License
Google Protobuf protocol buffers library	3.17.1 & 3.19.2	BSD 3-clause "New" or "Revised" License
google/flatbuffers	Github commit 23bb57401c6ac aa6f9e983e6eb7 a687527b68af6	Apache License 2.0
googlebenchmark	1.6.1	Apache License 2.0
gperftools	2.9.1	BSD 3-Clause License
graceful-fs	4.2.9	ISC License
Grafana	9.2.6	GNU Affero General Public License v3.0
grub	2.04+2.06~rc1	GPL-3.0-only License
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-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

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

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

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

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

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

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libepoxy	1.5.10	MIT License
libev	4.33	BSD 2-Clause License OR GPL-2.0-or-later License
libevdev	1.12.1	MIT License
libevent	2.1.12	BSD 3-Clause License AND MIT License
libfdt	0.20	GNU General Public License v1.0
libffi	3.4.4	MIT License
libfontenc	1.1.4	MIT License
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libgcrypt	1.9.4	GPL-2.0-or-later License AND LGPL-2.1-or-later License AND GPL-3.0-or-later License
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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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libmcrypt	2.5.8	LGPL-2.1-only License
libnghttp2	1.47.0	MIT License
libnl	3.5.0	LGPL-2.1-only License
libnsl2	2.0.0	LGPL-2.1-only License

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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
libusb-compat	0.1.7	GNU Lesser General Public License v2.1
libusb1	1.0.26	LGPL-2.1-or-later License
libvncserver	0.9.13	GPL-2.0-only License
libx11	1.7.3.1	MIT License AND MIT License AND BSD-1-Clause License AND Historical Permission Notice and Disclaimer AND HPND-sell-variant License
libxau	1.0.9	MIT License
libxaw	1.0.14	MIT License
libxcb	1.14	MIT License
libxcomposite	0.4.5	MIT License
libxcrypt	4.4.30	LGPL-2.1-only License
libxcvt	0.1.1	MIT License
libxdamage	1.1.5	MIT License
libxdmcp	1.1.3	MIT License
libxext	1.3.4	MIT License

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libxft	2.3.4	MIT License
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libxinerama	1.1.4	MIT License
libxkbcommon	1.4.1	MIT License AND MIT License AND
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libxpm	3.5.15	MIT License
libxrandr	1.5.2	MIT License
libxrender	0.9.10	MIT License
libxshmfence	1.3	Historical Permission Notice and Disclaimer
libxt	1.2.1	MIT License AND MIT License AND
libxtst	1.2.3	MIT License
libxxf86vm	1.1.4	MIT License
lines-and-columns	1.2.4	MIT License
linux	5.10	GPL-2.0-only License

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linux-firmware	20230404	Firmware-Abilis License AND Firmware-adsp_sst License AND Firmware-agere License AND AMD GPU microcode license AND Firmware-amd-ucode License AND Firmware-amlogic_vdec License AND Firmware-atheros_firmware License AND Firmware-atmel License AND Firmware-broadcom_bcm43xx License AND Firmware-ca0132 License AND Firmware-cavium License AND Firmware-chelsio_firmware License AND Firmware-cw1200 License AND Firmware-cypress License AND Firmware-dib0700 License AND Firmware-e100 License AND Firmware-ene_firmware License AND Firmware-fw_sst_0f28 License AND Firmware-go7007 License AND Firmware-GPLv2 License AND Firmware-hfi1_firmware License AND Firmware-i915 License AND Firmware-ibt_firmware License AND Firmware-ice License AND Firmware-it913x License AND Firmware-iwlwifi_firmware License AND Firmware-IntcSST2 License AND Firmware-kaweth License AND Firmware-Lontium License AND Firmware-Marvell License AND Firmware-moxa License AND Firmware-myri10ge_firmware License AND Firmware-netronome License AND Firmware-nvidia License AND Firmware-OLPC License AND Firmware-ath9k-htc License AND Firmware-phanfw License AND Firmware-qat License AND Firmware-qcom License AND Firmware-qcom-yamato License AND Firmware-qla1280 License AND Firmware-qla2xxx License AND Firmware-qualcommAthos_ar3k License AND Firmware-qualcommAthos_ath10k License AND

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linux-firmware-amdgpu	1.0	Firmware-amd License
linux-firmware-radeon	1.0	Firmware-amd License
listr2	3.14.0	MIT License
lit	2.4.0	BSD 3-clause "New" or "Revised" License
lit-element	3.2.2	BSD 3-clause "New" or "Revised" License
lit-html	2.4.0	BSD 3-clause "New" or "Revised" License
lit-labs/react	1.0.9	BSD 3-clause "New" or "Revised" License
lit-labs/scoped-registry-mixin	1.0.1	BSD 3-clause "New" or "Revised" License
lit/reactive-element	1.4.1	BSD 3-clause "New" or "Revised" License
LittleGV	7.0.1	MIT 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
lodash.once	4.1.1	MIT License

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log-update	4.0.0	MIT License
lpkit-udev-com- mon	1.0	MIT License
lru-cache	6.0.0	ISC License
lru-cache	7.7.1	ISC License
isof	4.94.0	Spencer-94 License
ltnng-ust	2.13.5	LGPL-2.1-or-later License AND MIT License AND GPL-2.0-only License
lwIP	2.1.2	BSD 3-clause "New" or "Revised" License
lzo	2.10	GPL-2.0-or-later License
magic-string	0.25.7	MIT License
make-dir	3.1.0	MIT License
make-error	1.3.6	ISC License
make-fetch-hap- pen	10.0.6	ISC License
make-fetch-hap- pen	9.1.0	ISC License
makeerror	1.0.12	BSD 3-clause "New" or "Revised" License
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mbed TLS	3.2.1	Apache License 2.0
mbedtls	3.1.0	Apache License 2.0
MD4 (RFC 1320) Message-Digest Algorithm	unspecific	MD4 license
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merge2	1.4.1	MIT License
mesa	22.0.3	MIT License
mhdds	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

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minimatch	3.0.4	ISC License
minimatch	5.1.6	ISC License
minimist	1.2.6	MIT License
minipass	3.1.6	ISC License
minipass-collect	1.0.2	ISC License
minipass-fetch	1.4.1	MIT License
minipass-fetch	2.0.3	MIT License
minipass-flush	1.0.5	ISC License
minipass-json-stream	1.0.1	MIT License
minipass-pipeline	1.2.4	ISC License
minipass-sized	1.0.3	ISC License
minizip	2.10.1	zlib License
minizip	2.9.3	zlib License
minizip-ng	3.0.6	zlib License
minizlib	2.1.2	MIT License
mkdirp	1.0.4	MIT License
mkfontscale	1.2.2	MIT License
ms	2.1.2	MIT License
mtdev	1.1.6	MIT License
mtrace-ng	1.0	GPL-2.0-only License
mupdf	1.15.0	AGPL-3.0-only License
musl-libc	1.1.16	MIT License
mute-stream	0.0.8	ISC License
natural-compare	1.4.0	MIT License
ncurses	6.3+20220423	MIT License
ncurses	6.3	MIT License
negotiator	0.6.3	MIT License
neo-async	2.6.2	MIT License
net-snmp	5.9.3	BSD 3-Clause License AND MIT License
netbase	6.3	GPL-2.0-only License

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nettle	3.7.3	LGPL-3.0-or-later License OR GPL-2.0-or-later License
nfs-utils	2.6.1	MIT License AND GPL-2.0-or-later License AND BSD 3-Clause License
nghttp2	1.47.0	MIT License
Nghttp2: HTTP/2 C Library	1.39.90	MIT License
nginx	1.20.1	BSD 2-Clause License
ngrx/store	13.2.0	MIT License
ngx-translate/ core	13.0.0	MIT License
ngx-translate/ http-loader	6.0.0	MIT License
Node Exporter	1.5.0	Apache License 2.0
Node Exporter Full Dashboard	schema version 37	Apache License 2.0
node-addon-api	3.2.1	MIT License
node-gyp	8.4.1	MIT License
node-gyp-build	4.3.0	MIT License
node-int64	0.4.0	MIT License
node-releases	2.0.2	MIT License
nodelib/fs.scan- dir	2.1.5	MIT License
nodelib/fs.stat	2.0.5	MIT License
nodelib/fs.walk	1.2.8	MIT License
nopt	5.0.0	ISC License
normalize-path	3.0.0	MIT License
NotoSansUI- Bold	1.06	SIL Open Font License 1.1
NotoSansUI-Bol- dItalic	1.06	SIL Open Font License 1.1
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NotoSansUI- Regular	1.06	SIL Open Font License 1.1

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

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nrwl/workspace	13.9.4	MIT License
nspr	4.29	GPL-2.0-only License OR MPL-2.0 License OR LGPL-2.1-only License
nss	3.74	(IMPL-2.0 License AND MIT License)) OR (IMPL-2.0 License AND GPL-2.0-or-later License AND MIT License)) OR (IMPL-2.0 License AND LGPL-2.1-or-later License AND MIT License)) OR
nwsapi	2.2.0	MIT License
nx	13.9.4	MIT License
object-inspect	1.12.3	MIT License
object-keys	1.1.1	MIT License
object.assign	4.1.2	MIT License
once	1.4.0	ISC License
onetime	5.1.2	MIT License
open	8.4.0	MIT License
openjpeg	2.4.0	BSD 2-Clause License
OpenSSL	1.1.1m	OpenSSL License
OpenSSL	1.1.1n	OpenSSL License
OpenSSL	3.0.0	Apache License 2.0
openssl	3.0.9	Apache License 2.0
OpenSSL cryptographic library	3.0.7	Apache License 2.0
optionator	0.8.3	MIT License
optionator	0.9.1	MIT License
ora	5.4.1	MIT License
os-release	1.0	MIT License
os-tmpdir	1.0.2	MIT License
ospath	1.2.2	MIT License
p-limit	2.3.0	MIT License
p-locate	4.1.0	MIT License

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p-try	2.2.0	MIT License
pacote	12.0.3	ISC License
parcel/watcher	2.0.4	MIT License
parent-module	1.0.1	MIT License
parse-json	5.2.0	MIT License
parse5	5.1.1	MIT License
parse5	6.0.1	MIT License
path-exists	4.0.0	MIT License
path-is-absolute	1.0.1	MIT License
path-key	3.1.1	MIT License
path-parse	1.0.7	MIT License
path-type	4.0.0	MIT License
pciutils	3.7.0	GPL-2.0-or-later License
PCRE2 library	10.40	BSD 3-clause "New" or "Revised" License
pcsc-lite	1.9.0	BSD 3-Clause License AND GPL-3.0-or-later License
pend	1.2.0	MIT License
performance-now	2.1.0	MIT License
phenomnomnominal/tsquery	4.1.1	MIT License
php	8.1.16	PHP License v3.0
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picomatch	2.3.1	MIT License
pify	2.3.0	MIT License
pirates	4.0.5	MIT License
pixman	0.40.0	MIT License AND MIT License AND Public Domain
pkg-dir	4.2.0	MIT License
POCO C++ libraries	1.12.4	Boost Software License 1.0
popt	1.18	MIT License
prelude-ls	1.1.2	MIT License

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prettier	2.6.0	MIT License
pretty-bytes	5.6.0	MIT License
pretty-format	27.5.1	MIT License
primeicons	4.1.0	MIT License
primeng	11.4.5	MIT License
Prometheus	2.36.2 & 2.41.0	Apache License 2.0
promise-inflight	1.0.1	ISC License
promise-retry	2.0.1	MIT License
protobuf	3.19.6	BSD 3-Clause License
proxy-from-env	1.0.0	MIT License
psl	1.8.0	MIT License
Public Domain JSON Parser for C	unspecific	The Unlicense
pump	3.0.0	MIT License
punycode	2.1.1	MIT License
pure-ftpd	1.0.47	BSD Zero Clause License
qrencode	4.0.2	GNU Lesser General Public License v2.1
qs	6.10.4	BSD 3-clause "New" or "Revised" License
queue-microtask	1.2.3	MIT License
randombytes	2.1.0	MIT License
rapidjson	1.1.0	MIT License
RapidXml XML parser	1.13	Boost Software License 1.0
react-is	17.0.2	MIT License
read-package- json-fast	2.0.3	ISC License
readable-stream	3.6.0	MIT License
readdirp	3.6.0	MIT License
readline	8.1.2	GPL-3.0-or-later License
regenerate	1.4.2	MIT License
regenerate-uni- code-properties	10.0.1	MIT License
regenerator-run- time	0.13.9	MIT License

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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
request-progress	3.0.0	MIT License
require-directory	2.1.1	MIT License
require-from-string	2.0.2	MIT License
require-main-file-name	2.0.0	ISC License
ResizableLib	1.1	Artistic License 1.0
resolve	1.22.0	MIT License
resolve-from	4.0.0	MIT License
resolve-from	5.0.0	MIT License
resolve.exports	1.1.0	MIT License
restore-cursor	3.1.0	MIT License
retry	0.12.0	MIT License
reusify	1.0.4	MIT License
rfdc	1.3.0	MIT License
rgb	1.0.6	MIT License
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Roboto-Bold	2.001150; 2014	Apache License 2.0
Roboto-BoldItalic	2.001150; 2014	Apache License 2.0
Roboto-Italic	2.001101; 2014	Apache License 2.0
Roboto-Medium	2.001152; 2014	Apache License 2.0
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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-async	2.4.1	MIT License
run-parallel	1.2.0	MIT License
rxjs	6.6.7	Apache License 2.0
rxjs	7.8.0	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
Samples for Win32 desktop apps using toast notifications	Git commit 99e0fd3628c581 50cf75db8f75aaf 4810212cf61 (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

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semver	6.3.0	ISC License
semver	7.0.0	ISC License
semver	7.3.4	ISC License
semver	7.3.5	ISC License
Sentry-Native	0.6.1	MIT License
serialize-javascript	6.0.0	BSD 3-clause "New" or "Revised" License
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shadow	4.11.1	BSD 3-Clause License
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slice-ansi	4.0.0	MIT License
smart-buffer	4.2.0	MIT License
smartmontools	7.3	GPL-2.0-only License
smwhostpci-mod	0.1	GPL-2.0-only License
socks	2.6.2	MIT License
socks-proxy-agent	6.1.1	MIT License
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source-map-support	0.5.21	MIT License
sourcemap-codec	1.4.8	MIT License

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ssri	8.0.1	ISC License
stack-utils	2.0.5	MIT License
STM32F4 HAL	1.7.8	BSD 3-clause "New" or "Revised" License
STM32F4 HAL	1.8.1	BSD 3-clause "New" or "Revised" License
strace	5.16	LGPL-2.1-or-later License AND GPL-2.0-or-later License
string-length	4.0.2	MIT License
string-width	4.2.3	MIT License
string_decoder	1.3.0	MIT License
strip-ansi	6.0.1	MIT License
strip-bom	3.0.0	MIT License
strip-bom	4.0.0	MIT License
strip-final-new-line	2.0.0	MIT License
strip-json-comments	3.1.1	MIT License
supports-color	5.5.0	MIT License
supports-color	7.2.0	MIT License
supports-color	8.1.1	MIT License
supports-hyperlinks	2.2.0	MIT License
supports-preserve-symlinks-flag	1.0.0	MIT License
swc-node/core	1.8.2	MIT License
swc-node/register	1.4.2	MIT License
swc-node/sourcemap-support	0.1.11	MIT License
swc/core	1.2.160	Apache License 2.0
swc/core-linux-x64-gnu	1.2.160	Apache-2.0 AND MIT License

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symbol-observable	4.0.0	MIT License
symbol-tree	3.2.4	MIT License
sysstat	12.4.5	GPL-2.0-or-later License
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
tar	6.1.11	ISC 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
throttleit	1.0.0	MIT License
through	2.3.8	MIT License
tiff	4.3.0	BSD 2-Clause License
tmp	0.0.33	MIT License
tmp	0.2.1	MIT License
tmpl	1.0.5	BSD 3-clause "New" or "Revised" License
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to-regexp-range	5.0.1	MIT License
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tootallnate/once	2.0.0	MIT License
tough-cookie	2.5.0	BSD 3-clause "New" or "Revised" License
tough-cookie	4.0.0	BSD 3-clause "New" or "Revised" License
tr46	2.1.0	MIT License

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ts-loader	9.2.8	MIT License
ts-node	9.1.1	MIT License
tsconfig-paths	3.14.1	MIT License
tsconfig-paths-webpack-plugin	3.5.2	MIT License
tslib	1.14.1	BSD Zero Clause License
tslib	2.3.1	BSD Zero Clause License
tunnel-agent	0.6.0	Apache License 2.0
tweetnacl	0.14.5	The Unlicense
type-check	0.3.2	MIT License
type-check	0.4.0	MIT License
type-detect	4.0.8	MIT License
type-fest	0.20.2	((MIT OR Creative Commons Zero v1.0 Universal)
type-fest	0.21.3	((MIT OR Creative Commons Zero v1.0 Universal)
typedarray-to-buffer	3.1.5	MIT License
types/babel__core	7.1.19	MIT License
types/babel__generator	7.6.4	MIT License
types/babel__template	7.4.1	MIT License
types/babel__traverse	7.14.2	MIT License
types/eslint	8.4.1	MIT License
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

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

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

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webassemblyjs/ helper-wasm- section	1.11.1	MIT License
webassemblyjs/ ieee754	1.11.1	MIT License
webassemblyjs/ leb128	1.11.1	Apache License 2.0
webassemblyjs/ utf8	1.11.1	MIT License
webassemblyjs/ wasm-edit	1.11.1	MIT License
webassemblyjs/ wasm-gen	1.11.1	MIT License
webassemblyjs/ wasm-opt	1.11.1	MIT License
webassemblyjs/ wasm-parser	1.11.1	MIT License
webassemblyjs/ wast-printer	1.11.1	MIT License
webidl-conver- sions	5.0.0	BSD 2-clause "Simplified" License
webidl-conver- sions	6.1.0	BSD 2-clause "Simplified" License
webpack	5.70.0	MIT License
webpack-merge	5.7.3	MIT License
webpack-node- externals	3.0.0	MIT License
webpack-sour- ces	3.2.3	MIT License
whatwg-encod- ing	1.0.5	MIT License
whatwg-mime- type	2.3.0	MIT License
whatwg-url	8.7.0	MIT License
which	2.0.2	ISC License
which-module	2.0.0	ISC License
wide-align	1.1.5	ISC License
wildcard	2.0.0	MIT License
Windows Exporter	0.20.0	MIT License

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Windows Exporter Dashboard	schema version 26	The Unlicense
Windows Service Wrapper (WinSW)	2.11.0	MIT License
word-wrap	1.2.3	MIT License
wrap-ansi	6.2.0	MIT License
wrap-ansi	7.0.0	MIT License
wrappy	1.0.2	ISC License
write-file-atomic	3.0.3	ISC License
ws	7.5.7	MIT License
x11vnc	0.9.16+git	GPL-2.0-or-later License
xauth	1.1.1	MIT License
xcb-util	0.4.0	MIT License
xcb-util-image	0.4.0	MIT License
xcb-util-keysyms	0.4.0	MIT License
xcb-util-renderutil	0.3.9	MIT License
xcb-util-wm	0.4.1	MIT License
xerces-c	3.2.3	Apache License 2.0
xf86-input-evdev	2.10.6	MIT License
xf86-input-keyboard	1.9.0	MIT License
xf86-input-libinput	1.2.1	MIT License
xf86-input-mouse	1.9.3	MIT License
xf86-input-synaptics	1.9.2	MIT License
xf86-video-amd	gitAUTOINC+533bd30cea	MIT License
xf86-video-ati	19.1.0	MIT License
xf86-video-fbdev	0.5.0	MIT License
xf86-video-vbox	gitAUTOINC+4f3a2bea25	MIT License
xf86-video-vesa	2.5.0	MIT License
xinit	1.4.1	MIT License
xinput	1.6.3	MIT License

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xinput-calibrator	0.7.5+git	MIT License
xkbcomp	1.4.5	MIT License
xkeyboard-config	2.35.1	MIT License AND MIT License AND
xml-name-validator	3.0.0	Apache License 2.0
xmlchars	2.2.0	MIT License
xorg-minimal-fonts	1.0	Public Domain
xserver-xf86-config	0.1	MIT License
xserver-xorg	21.1.8	MIT License
xset	1.2.4	MIT License
xterm	372	MIT License
xtuc/ieee754	1.2.0	BSD 3-clause "New" or "Revised" License
xtuc/long	4.2.2	Apache License 2.0
xz	5.2.6	GPL-2.0-or-later License AND GNU General Public License v3.0 WITH Autoconf exception 3.0 AND LGPL-2.1-or-later License AND Public Domain
XZIP and XUNZIP	1.3	Info-ZIP License
y18n	4.0.3	ISC License
yallist	4.0.0	ISC License
yaml	1.10.2	ISC License
yargs	15.4.1	MIT License
yargs-parser	18.1.3	ISC License
yargs-parser	20.0.0	ISC License
yarnpkg/lockfile	1.1.0	BSD 2-clause "Simplified" License
yauzl	2.10.0	MIT License
yn	3.1.1	MIT License
zeromq	Pre 4.3.3 Github commit d76664017c7ccf a8170f50aab9e4 f01d2b0ddfd4	GNU Lesser General Public License v3.0
zeromq	4.3.4	LGPL-3.0-or-later License

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zlib	1.2.11	zlib License
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zlib	1.2.11	zlib License
Zlib compression library	1.2.12	zlib License
zone.js	0.11.5	MIT License
zstd	1.5.0	GNU General Public License v2.0 AND BSD 3-clause "New" or "Revised" License
zstd	1.5.2	BSD 3-Clause License AND GPL-2.0-only License

LLVM Compiler is developed by:

LLVM Team

University of Illinois at Urbana-Champaign

<http://llvm.org>

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Version 3, 19 November 2007

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Version 3.0, 18 August 2009

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3.13 GCC Runtime Library exception 3.1

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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MD4 (RFC-1320) message digest.

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

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

"A generic solution to polygon clipping"

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

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

Computer graphics and geometric modeling: implementation and algorithms

By Max K. Agoston

Springer; 1 edition (January 4, 2005)

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

See also:

"Polygon Offsetting by Computing Winding Numbers"

Paper no. DETC2005-85513 pp. 565-575

ASME 2005 International Design Engineering Technical Conferences

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

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ARCore SDK

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

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ARCore SDK client library for Chrome

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Breakpad, An open-source multi-platform crash reportingsystem

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Chromium OS system API
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CityHash

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

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Closure compiler

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

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Cocoa extension code from Camino
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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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```

FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to
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modifications by Alexander Strange <astrange@ithinksw.com>; Originally from
dct/x86_asm/fdct_sse2_skal.asm in Xvid. Vertical pass is an implementation of the scheme: Loe
Ligtenberg A., and Moschytz C.S.: Practical Fast 1D DCT Algorithm with Eleven Multiplications,
ICASSP 1989, 988-991. Horizontal pass is a double 4x4 vector/matrix multiplication, (see also
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Google Ink

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google-glog's symbolization library

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google-jstemplate

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

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./test/eigen2/eigen2_cwiseop.cpp ./test/eigen2/eigen2_geometry_with_eigen2_prefix.cpp
./test/eigen2/eigen2_smallvectors.cpp ./test/eigen2/eigen2_commainitializer.cpp
./test/eigen2/eigen2_sparse_solvers.cpp ./test/eigen2/eigen2_hyperplane.cpp
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./test/vectorization_logic.cpp ./test/jacobi.cpp ./test/diagonal.cpp ./test/schur_complex.cpp
./test/sizeoverflow.cpp ./bench/BenchTimer.h ./bench/benchFFT.cpp ./bench/eig33.cpp
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./unsupported/Eigen/src/NonLinearOptimization/LevenbergMarquardt.h

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./unsupported/Eigen/src/AutoDiff/AutoDiffVector.h ./unsupported/Eigen/src/Splines/Spline.h
./unsupported/Eigen/src/Splines/SplineFitting.h ./unsupported/Eigen/src/Splines/SplineFwd.h
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./Eigen/src/Eigen2Support/Lazy.h ./Eigen/src/Eigen2Support/Memory.h
./Eigen/src/Eigen2Support/MathFunctions.h ./Eigen/src/Eigen2Support/Geometry/AlignedBox.h
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./Eigen/src/SparseCore/SparseCwiseBinaryOp.h ./Eigen/src/SparseCore/SparseDiagonalProduct.h
./Eigen/src/SparseCore/SparseProduct.h ./Eigen/src/SparseCore/SparseDot.h
./Eigen/src/SparseCore/SparseCwiseUnaryOp.h ./Eigen/src/SparseCore/SparseSparseProductWithPruning.h
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./Eigen/src/SparseCore/CompressedStorage.h ./Eigen/src/SparseCore/SparseMatrixBase.h
./Eigen/src/SparseCore/MappedSparseMatrix.h ./Eigen/src/SparseCore/SparseTriangularView.h

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./Eigen/src/SparseCore/TriangularSolver.h ./Eigen/src/SparseCore/SparseSelfAdjointView.h
./Eigen/src/SparseCore/SparseMatrix.h ./Eigen/src/SparseCore/SparseVector.h
./Eigen/src/SparseCore/AmbiVector.h ./Eigen/src/SparseCore/ConservativeSparseProduct.h
./Eigen/src/SparseCore/SparseRedux.h ./Eigen/src/SparseCore/SparsePermutation.h
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./Eigen/src/Cholesky/LLT.h ./Eigen/src/CholmodSupport/CholmodSupport.h
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GVR Keyboard

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harfbuzz-ng

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

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

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jsoncpp

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

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Khronos reference front-end for GLSL and ESSL

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LevelDB: A Fast Persistent Key-Value Store

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

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libaddressinput

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libcxx-pretty-printers

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

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libprotobuf-mutator

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libudev

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libxslt

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linux-syscall-support

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opus

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OTS (OpenType Sanitizer)

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Protocol Buffers

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pyjson5

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pywebsocket3

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

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Quick Color Management System

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re2 - an efficient, principled regular expression library

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Shaderc

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simplejson

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six

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Snappy: A fast compressor/decompressor

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SPIRV-Cross

Project Homepage: <https://github.com/KhronosGroup/SPIRV-Cross>

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url_parse

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usrstcp

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v4l-utils

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V8 JavaScript Engine

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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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That's all there is to it!

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

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

```
/**
```

```
This file is part of avahi.
```

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USA.
***/

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

#include <inttypes.h>

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

#ifndef foodnshfoo
#define foodnshfoo

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USA.
***/

#include "rr.h"

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

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***/

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

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

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

/**/

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***/

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

```
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ifplugd-0.28: LICENSE
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```

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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
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```

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```
=====
base-passwd-3.5.29: COPYING
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=====
```

```
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```

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```
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```
=====
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binutils-2.38: include/COPYING
gcc-runtime-11.3.0: COPYING
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=====

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price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

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

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

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

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The

former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

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

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

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library

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

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

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

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

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

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

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if

written in the body of this License.

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Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

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

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

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

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

That's all there is to it!

```
=====
binutils-2.38: COPYING3
binutils-2.38: gas/COPYING
binutils-2.38: include/COPYING3
```

```

binutils-2.38: bfd/COPYING
cifs-utils-6.14: COPYING
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

```

```

=====
GNU GENERAL PUBLIC LICENSE

```

```

Version 3, 29 June 2007

```

```

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```

```

Preamble

```

```

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

```

```

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

```

```

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

```

```

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

```

```

For example, if you distribute copies of such a program, whether

```

gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work

in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all

the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

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measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- 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.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
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```
=====
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=====
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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```

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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!

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

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```
=====
brotli-1.0.9: LICENSE
=====
```

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```
=====
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```

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```
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```

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

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

```
bzip2 applet in busybox is based on lightly-modified source
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```

=====

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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

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

```
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```

```
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```

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

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

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

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

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

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version 2 of the License, or (at your option) any later version.
```

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

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

That's all there is to it!

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

```
/*
```

```

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

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

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

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

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

```
=====
e2fsprogs-1.46.5: lib/uuid/COPYING
e2fsprogs-1.46.1: lib/uuid/COPYING
util-linux-2.37.4: Documentation/licenses/COPYING.BSD-3-Clause
util-linux-libuuid-2.37.4: Documentation/licenses/COPYING.BSD-3-Clause
=====
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```
=====
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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* Germany, probably the most despised pair of letters in western
* culture." --- http://scriptingnewsarchive.userland.com/1999/12/13
*
* Let no one say political correctness isn't dead....

```

```

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

```

```

/* Retrieve ELF / DWARF / source files from the debuginfod.
   Copyright (C) 2019-2021 Red Hat, Inc.
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Juliusz Chroboczek

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

```

```

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

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```
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-semi-condensed--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-semi-condensed--13-120-75-75-c-60-koi8-r
koi6x13bold -misc-fixed-bold-r-semi-condensed--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

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

```


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

```
/*
 * fontconfig/src/fcftretype.c
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```

```
*/
```

```
/*
```

```
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```

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```

```
*/
```

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

```
/*
```

```
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
```

```
*
```

```
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
```

```
*
```

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

```
*/
```

```
=====
```

font-util-1.3.3: COPYING

=====

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 =====

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=====  
font-util-1.3.3: bdftruncate.c, 1-26  
=====
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font-util-1.3.3: map-ISO8859-1, 9-23  
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glibc-2.35: COPYING.LIB
libnl-3.5.0: COPYING
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systemd-250.5: LICENSE.LGPL2.1
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util-linux-libuuid-2.37.4: Documentation/licenses/COPYING.LGPL-2.1-or-later
xz-5.2.6: COPYING.LGPLv2.1
=====

```

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

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Version 3.1, 31 March 2009

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```
=====
glib-2.0-2.72.3: glib/glib.h, 4-17
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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```
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glibc-2.35: LICENSES
=====
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```
=====
gnutls-3.7.4: LICENSE
=====
```

```
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Version 3, 29 June 2007

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```

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
 "src/lib/gssapi", including the following files:

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


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

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

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 - libarchive/archive_blake2sp_ref.c

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(For example, a function in a library to compute square roots has

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

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```
=====
libgpg-error-1.44: src/gpg-error.h.in, 2-18
=====
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=====
 libidn2-2.3.2: src/idn2.c, 1-16
 =====

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

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

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

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

=====

```
/*
 * cdjpeg.h
 *
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```

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*

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

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

```
/*
```

```
* jpeglib.h
```

```
*
```

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```

```
*
```

```
* This file defines the application interface for the JPEG library.
```

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

```
* and perhaps jerror.h if they want to know the exact error codes.
```

```
*/
```

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

```
/*
```

```
* djpeg.c
```

```
*
```

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```

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

```
/*
```

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

Python interface to ldb.

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

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*/

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

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

/*

Unix SMB/CIFS implementation.
 simple ldb tdb dump util
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Written by: Philip Hazel
Email local part: Philip.Hazel
Email domain: gmail.com

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```
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```

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=====
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*/
```

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

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

   Copyright (C) Andrew Tridgell 2004-2005
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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

   Copyright (C) Andrew Tridgell 1999-2004

```

```

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```

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```
*/
```

```

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

```

```
/*
```

Unix SMB/CIFS implementation.

generalised event loop handling

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```

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```
*/
```

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```

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 */
```

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

```
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*/
```

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

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

```
\input texinfo          @c -*-texinfo-*-
@comment %**start of header
@setfilename libunistring.info
@documentencoding UTF-8
@settitle GNU libunistring
@finalout
@c Indices:
@c  am = autoconf macro   @amindex
@c  cp = concept          @cindex
```

```

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

@include version.texi

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

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

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

```

```
@end ifnotinfo

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

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

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

@ifinfo
This manual is for GNU libunistring.

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

@end ifinfo

@titlepage

@title GNU libunistring, version @value{VERSION}

@subtitle updated @value{UPDATED}

@author Bruno Haible

@ifnohtml

@page

@vskip 0pt plus 1filll

@c @insertcopying

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@end ifnohtml

@end titlepage

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@top GNU libunistring


```

@end ifnottex

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

* Index::                       General Index

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* 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
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* Word break property::

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@end detailmenu

@end menu

@node Introduction

@chapter Introduction

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

It consists of the following parts:

@table @code

@item <unistr.h>

elementary string functions

@item <unicov.h>

conversion from/to legacy encodings

@item <unistdio.h>

formatted output to strings

```

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

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

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

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

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

@node Unicode
@section Unicode

@cindex Unicode
Unicode is a standardized repertoire of characters that contains characters
from all scripts of the world, from Latin letters to Chinese ideographs

```

and Babylonian cuneiform glyphs. It also specifies how these characters are to be rendered on a screen or on paper, and how common text processing (word selection, line breaking, uppercasing of page titles etc.) is supposed to behave on Unicode text.

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

```
@cindex UTF-8
```

```
@cindex UTF-16
```

```
@cindex UTF-32
```

```
@cindex UCS-4
```

```
@table @asis
```

```
@item UTF-8
```

Every character is represented as 1 to 4 bytes.

```
@item UTF-16
```

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

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

Every character is represented as 1 unit of 32 bits.

```
@end table
```

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

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

References:

```
@itemize @bullet
```

```
@item
```

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

```
@item
```

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

```
@item
```

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

```
@item
```

Markus Kuhn's UTF-8 and Unicode FAQ:@texnl{} @url{https://www.cl.cam.ac.uk/~mgk25/unicode.html}

```
@end itemize
```

```
@node Unicode and i18n
```

```
@section Unicode and Internationalization
```

```
@cindex internationalization
```

Internationalization is the process of changing the source code of a program

so that it can meet the expectations of users in any culture, if culture specific data (translations, images etc.) are provided.

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

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

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

@itemize @bullet

@item

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

@item

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

@item

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

@item

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

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

@end itemize

@node Locale encodings

@section Locale encodings

@cindex locale

A locale is a set of cultural conventions. According to POSIX, for a program, at any moment, there is one locale being designated as the ``current locale''. (Actually, POSIX supports also one locale per thread, but this feature is not yet universally implemented and not widely used.)

@cindex locale categories

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

@itemize @bullet

@item

The character encoding and the character properties. This is the

@code{LC_CTYPE} category.

@item

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

@item

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

@item

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

@item

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

@item

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

@end itemize

@cindex locale encoding

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

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

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

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

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

@node In-memory representation

@section Choice of in-memory representation of strings

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

@itemize @bullet

@item

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

@item

As UTF-8 or UTF-16 or UTF-32 strings. This implies that conversion from locale encoding to Unicode is performed on input, and in the opposite

direction on output. This approach is employed when the program does a significant amount of text processing, or when the program has multiple threads operating on the same data but in different locales.

@item

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

@end itemize

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

The five types @code{char *}, @code{uint8_t *}, @code{uint16_t *}, @code{uint32_t *}, and @code{wchar_t *} are incompatible types at the C level. Therefore, @samp{gcc -Wall} will produce a warning if, by mistake, your code contains a mismatch between these types. In the context of using GNU libunistring, even a warning about a mismatch between @code{char *} and @code{uint8_t *} is a sign of a bug in your code that you should not try to silence through a cast.

@node char * strings

@section @samp{char *} strings

@cindex C string functions

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

@cindex locale, multibyte

The first problem with the C library API is the support of multibyte locales. According to the locale encoding, in general, every character is represented by one or more bytes (up to 4 bytes in practice --- but use @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{strcasemp}, @posixfunc{strncasemp}, and @posixfunc{strcasestr} functions do not work with multibyte strings.

@end itemize

The workarounds can be found in GNU glibc

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

@itemize @bullet

@item

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

@item

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

@item

glibc has functions @func{mbschr} and @func{mbsrchr} that are

like @posixfunc{strchr} and @posixfunc{strrchr}, but work in multibyte locales.
 @item

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

@item

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

@item

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

@item

gnulib has functions @func{mbscasecmp}, @func{mbsncasecmp}, @func{mbspcasecmp}, and @func{mbscasestr} that are like @posixfunc{strcasecmp}, @posixfunc{strncasecmp}, 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 `<unicase.h>`, see [@ref{unicase.h}](#).

```
@node Unicode strings
@section Unicode strings
```

libunistring supports Unicode strings in three representations:

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

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

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

```
@itemize @bullet
```

```
@item
```

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

```
@item
```

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

```
@item
```

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

```
@end itemize
```

As with C strings, there are two variants:

```
@itemize @bullet
```

```
@item
```

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

```
@item
```

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

```
@end itemize
```

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

This chapter explains conventions valid throughout the libunistring library.

```
@cindex argument conventions
```

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

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

are bytes.

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

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

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

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

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

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

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

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

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

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

`@cindex` return value conventions

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

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

`@include unitypes.texi`

```

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

```

```

@node Using the library
@chapter Using the library

```

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

```

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

```

```

@node Installation
@section Installation

```

```

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

```

```

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

```

```

@node Compiler options
@section Compiler options

```

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

Let's denote as `LIBUNISTRING_INCLUDEDIR` the directory where the

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

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

Index compiler options

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

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

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.

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

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

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

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

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

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

@node Reporting problems
@section Reporting problems

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

```

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

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

`@node More functionality`
`@chapter More advanced functionality`

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

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

`@include wchar_t.texi`

`@include char32_t.texi`

`@node Licenses`
`@appendix Licenses`
`@cindex Licenses`

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

`@itemize @bullet`
`@item`
 The `libunistring` library and its header files are dual-licensed under "the GNU LGPLv3+ or the GNU GPLv2+". This means, you can use it under either
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 the terms of the GNU Lesser General Public License (LGPL) version 3 or (at your option) any later version, or
`@item @minus{}`
 the terms of the GNU General Public License (GPL) version 2 or (at your option) any later version, or
`@item @minus{}`
 the same dual license "the GNU LGPLv3+ or the GNU GPLv2+".
`@end itemize`
 You find the GNU LGPL version 3 in `@ref{GNU LGPL}`. This license is based on the GNU GPL version 3, see `@ref{GNU GPL}`.
`@*`
 You can find the GNU GPL version 2 at


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

```
@*
```

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

```
@item
```

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```

```
@*
```

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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
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uatomic/generic.h
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uatomic/arm.h
uatomic/ppc.h
uatomic/x86.h
uatomic.h
```

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

* GPLv2

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

* GPLv3 (or later)

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

m4/ax_tls.m4

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

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

```
=====
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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* modified is included with the above copyright notice.
*
* Code inspired from libatomic_ops-1.2, inherited in part from the
* Boehm-Demers-Weiser conservative garbage collector.
*/

```

```

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

```

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Version 2.1, February 1999

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libxinerama-1.1.4: src/Xinerama.c, 2-25
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libxml2-2.9.14: hash.c, 6-15
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libxml2-2.9.14: list.c, 4-13
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libxml2-2.9.14: trio.c, 5-14
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libxtst-1.2.3: src/XTest.c, 2-32

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```
=====
linux-firmware-20230404: LICENCE.agere
=====
```

```
agere_sta_fw.bin -- 9.48 Hermes I
agere_ap_fw.bin  -- 9.48 Hermes I
```

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=====
linux-firmware-20230404: LICENCE.atheros_firmware
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Fast discrete Fourier and cosine transforms and inverses
 author: Monty <xiphmont@mit.edu>
 modifications by: Monty
 last modification date: Jul 1 1996

/* These Fourier routines were originally based on the Fourier routines of the same names from the NETLIB bihar and fftpack fortran libraries developed by Paul N. Swarztrauber at the National Center for Atmospheric Research in Boulder, CO USA. They have been reimplemented in C and optimized in a few ways for OggSquish. */

/* As the original fortran libraries are public domain, the C Fourier routines in this file are hereby released to the public domain as well. The C routines here produce output exactly equivalent to the original fortran routines. Of particular interest are the facts that (like the original fortran), these routines can work on arbitrary length vectors that need not be powers of two in length. */

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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the `make` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

CONFIG_HOTPLUG	- Support for hot-pluggable devices
CONFIG_MODULES	- Enable loadable module support
CONFIG_KMOD	- Automatic kernel module loading
CONFIG_FW_LOADER	- Hotplug firmware loading support
CONFIG_I2C	- I2C support
CONFIG_VIDEO_DEV	- Video For Linux
CONFIG_SOUND	- Sound card support
CONFIG_SND	- Advanced Linux Sound Architecture
CONFIG_USB	- Support for Host-side USB
CONFIG_USB_DEVICEFS	- USB device filesystem
CONFIG_USB_EHCI_HCD	- EHCI HCD (USB 2.0) support

Additionally, to use the example application, the following options need to be enabled in the ALSA section:

CONFIG_SND_MIXER_OSS	- OSS Mixer API
CONFIG_SND_PCM_OSS	- OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>. Hotplugging is used for loading firmware into the Cypruss EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be installed by running:

```
$ make install
```

The kernel modules will be placed in `"/lib/modules/<KERNEL VERSION>/extra"` and the firmware files will be placed in the appropriate hotplug firmware directory, usually `/lib/firmware`. In addition, USB maps and scripts will

be placed in `/etc/hotplug/usb` to enable `fxload` to initialize the EZ-USB control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the `"force_band"` parameter to the `wis-sony-tuner` module:

TV band	force_band
-----	-----
PAL B/G	B
PAL I	I
PAL D/K	D
SECAM L	L

If the `"force_band"` parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the `"force_mpx_mode"` parameter must be specified to the `wis-sony-tuner` module.

TV band	Audio subcarrier	force_mpx_mode
-----	-----	-----
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4
PAL I	NICAM	5
PAL D/K	Mono (default)	6

PAL D/K	A2 (1)	7
PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in

/var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to `gorecord` will cause it to probe the available devices and exit. Use the `-help` flag for usage information.

5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

- * Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.
- * No raw video modes are supported, so applications like `xawtv` that expect only uncompressed video will not function.
- * Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.
- * MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.
- * Video parameters such as format and input port may not be changed while the encoder is active.
- * The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.
- * The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The `include/` directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

```
GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS
```

These `ioctl`s are used to negotiate general compression parameters.

To query the current parameters, call the `GO7007IOC_G_COMP_PARAMS` `ioctl` with a pointer to a struct `go7007_comp_params`. If the driver is not set to MPEG format, the `EINVAL` error code will be returned.

To change the current parameters, initialize all fields of a struct `go7007_comp_params` and call the `GO7007_IOC_S_COMP_PARAMS` `ioctl` with a

pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct `go7007_comp_params`:

<code>__u32</code> <code>gop_size</code>	The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.
<code>__u32</code> <code>max_b_frames</code>	The maximum number of sequential bidirectionally-predicted frames. (B-frames are not yet supported.)
<code>enum go7007_aspect_ratio</code> <code>aspect_ratio</code>	The aspect ratio to be encoded in the meta-data of the compressed format.
	Choices are:
	<code>GO7007_ASPECT_RATIO_1_1</code>
	<code>GO7007_ASPECT_RATIO_4_3_NTSC</code>
	<code>GO7007_ASPECT_RATIO_4_3_PAL</code>
	<code>GO7007_ASPECT_RATIO_16_9_NTSC</code>
	<code>GO7007_ASPECT_RATIO_16_9_PAL</code>
<code>__u32</code> <code>flags</code>	Bit-wise OR of control flags (below)

Flags in struct `go7007_comp_params`:

<code>GO7007_COMP_CLOSED_GOP</code>	Only produce self-contained GOPs, used to produce streams appropriate for random seeking.
<code>GO7007_COMP_OMIT_SEQ_HEADER</code>	Omit the stream sequence header.

`GO7007IOC_S_MPEG_PARAMS`, `GO7007IOC_G_MPEG_PARAMS`

These ioctls are used to negotiate MPEG-specific stream parameters when the `pixelformat` has been set to `V4L2_PIX_FMT_MPEG`.

To query the current parameters, call the `GO7007IOC_G_MPEG_PARAMS` ioctl with a pointer to a struct `go7007_mpeg_params`. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct

go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

```
enum go7007_mpeg_video_standard
    mpeg_video_standard      The MPEG video standard in which to
                             compress the video.

                             Choices are:
                             GO7007_MPEG_VIDEO_MPEG1
                             GO7007_MPEG_VIDEO_MPEG2
                             GO7007_MPEG_VIDEO_MPEG4

    __u32                    Bit-wise OR of control flags (below)
    flags

    __u32                    The profile and level indication to be
    pali                     stored in the sequence header. This
                             is only used as an indicator to the
                             decoder, and does not affect the MPEG
                             features used in the video stream.
                             Not valid for MPEG1.

                             Choices for MPEG2 are:
                             GO7007_MPEG2_PROFILE_MAIN_MAIN

                             Choices for MPEG4 are:
                             GO7007_MPEG4_PROFILE_S_L0
                             GO7007_MPEG4_PROFILE_S_L1
                             GO7007_MPEG4_PROFILE_S_L2
                             GO7007_MPEG4_PROFILE_S_L3
                             GO7007_MPEG4_PROFILE_ARTS_L1
                             GO7007_MPEG4_PROFILE_ARTS_L2
                             GO7007_MPEG4_PROFILE_ARTS_L3
                             GO7007_MPEG4_PROFILE_ARTS_L4
                             GO7007_MPEG4_PROFILE_AS_L0
                             GO7007_MPEG4_PROFILE_AS_L1
                             GO7007_MPEG4_PROFILE_AS_L2
                             GO7007_MPEG4_PROFILE_AS_L3
                             GO7007_MPEG4_PROFILE_AS_L4
                             GO7007_MPEG4_PROFILE_AS_L5
```

Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE Force all compression parameters and bitrate control settings to comply with DVD MPEG2 stream requirements. This overrides most compression and bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The VIDIOC_S_JPEGCOMP ioctl is not supported.

Installing the WIS PCI Voyager Driver

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

<http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner>
<http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2>
<http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg>
<http://dl.bytesex.org/patches/2.6.11-2/saa7134-update>

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
 patches/2.6.11/tda8275-newaddr.diff
 patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

```
$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007
```

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

```
$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi
```

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".
- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.
- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.
- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

```
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```

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```
=====  
linux-firmware-20230404: LICENCE.ti-connectivity  
=====
```

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```
=====
linux-firmware-20230404: LICENCE.ti-keystone
=====
```

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```
=====
linux-firmware-20230404: LICENCE.ueagle-atm4-firmware
=====
```

This license applies to eagle4 firmware & DSPcode
namely, the files eagleIV.fw DSP4p.bin*

```
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```

=====
linux-firmware-20230404: LICENCE.via_vt6656
=====

```

The following license applies to the binary-only VT6656 firmware as contained in the file "vntwusb.fw"

```

=====
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```
=====
linux-firmware-20230404: LICENCE.wl1251
=====
```

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```
=====
linux-firmware-20230404: LICENCE.xc4000
=====
```

The following XC4000 firmware file "dvh-fe-xc4000-1.4.1.fw" was created based on version 1.4 of "xc4000_firmwares.h".

Firmware provided as part of an XC4000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@kernellabs.org> on July 1, 2009.

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```
=====
linux-firmware-20230404: LICENCE.xc5000
=====
```

The following XC500 firmware file "dvb-fe-xc5000-1.6.114.fw" was created based on "xc5000_firmwares_32000Khz.h".

Firmware provided as part of an XC5000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org> on July 1, 2009.

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```
=====
linux-firmware-20230404: LICENCE.xc5000c
=====
```

The following XC500C firmware file "dvb-fe-xc5000C-4.1.30.7.fw" was created based on "Xc5200_firmwares_32000Khz.h".

Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares <Ramon.Cazares@CrestaTech.com> to Devin Heitmueller <dheitmueller@linuxtv.org> on July 25, 2012.

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```
=====
linux-firmware-20230404: WHENCE
=====
```

```
*****
* WHENCE *
*****
```

This file attempts to document the origin and licensing information, if known, for each piece of firmware distributed for use with the Linux kernel.

Driver: BCM-0bb4-0306 Cypress Bluetooth firmware for HTC Vive

File: brcm/BCM-0bb4-0306.hcd

Link: brcm/BCM-0a5c-6410.hcd -> BCM-0bb4-0306.hcd

Licence: Redistributable. See LICENCE.cypress for details.

Driver: snd-korg1212 -- Korg 1212 IO audio device

File: korg/k1212.dsp

Licence: Unknown

Found in alsa-firmware package in hex form; no licensing information.

Driver: snd-maestro3 -- ESS Allegro Maestro3 audio device

File: ess/maestro3_assp_kernel.fw

File: ess/maestro3_assp_minisrc.fw

Licence: Unknown

Found in alsa-firmware package in hex form with a comment claiming to be GPLv2+, but without source -- and with another comment saying "ESS drops binary dsp code images on our heads, but we don't get to see

specs on the dsp."

Driver: snd-ymfpci -- Yamaha YMF724/740/744/754 audio devices

File: yamaha/dsl_ctrl.fw
File: yamaha/dsl_dsp.fw
File: yamaha/dsle_ctrl.fw

Licence: Unknown

Found als-a-firmware package in hex form, with the following comment:
Copyright (c) 1997-1999 Yamaha Corporation. All Rights Reserved.

Driver: advansys - AdvanSys SCSI

File: advansys/mcode.bin
File: advansys/3550.bin
File: advansys/38C0800.bin
File: advansys/38C1600.bin

Licence: BSD, no source available.

Found in hex form in kernel source.

Driver: qla1280 - Qlogic QLA 1240/1x80/1x160 SCSI support

File: qllogic/1040.bin
File: qllogic/1280.bin
File: qllogic/12160.bin

Licence: Redistributable. See LICENCE.qla1280 for details

Driver: kaweth -- USB KLSI KL5USB101-based Ethernet device

File: kaweth/new_code.bin
File: kaweth/new_code_fix.bin
File: kaweth/trigger_code.bin
File: kaweth/trigger_code_fix.bin

Licence: Redistributable. See LICENCE.kaweth for details

Found in hex form in the kernel source.

Driver: dvb-ttusb-budget -- Technotrend/Hauppauge Nova-USB devices

File: ttusb-budget/dspbootcode.bin

Licence: Unknown

Found in hex form in the kernel source.

Driver: keyspan -- USB Keyspan USA-xxx serial device

File: keyspan/mpr.fw

File: keyspan/usa18x.fw

File: keyspan/usa19.fw

File: keyspan/usa19qi.fw

File: keyspan/usa19qw.fw

File: keyspan/usa19w.fw

File: keyspan/usa28.fw

File: keyspan/usa28xa.fw

File: keyspan/usa28xb.fw

File: keyspan/usa28x.fw

File: keyspan/usa49w.fw

File: keyspan/usa49wlc.fw

Converted from Intel HEX files, used in our binary representation of ihex.

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Driver: keyspan_pda -- USB Keyspan PDA single-port serial device

File: keyspan_pda/keyspan_pda.fw
Source: keyspan_pda/keyspan_pda.S

File: keyspan_pda/xircom_pgs.fw
Source: keyspan_pda/xircom_pgs.S

Source: keyspan_pda/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

Driver: emi26 -- EMI 2|6 USB Audio interface

File: emi26/bitstream.fw
Version: 1.1.1.131
Info: DATE=2001dec06

File: emi26/firmware.fw
Version: 1.0.2.916
Info: DATE=12.02.2002

File: emi26/loader.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:

```
/*
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 *
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 * requires the inclusion of this statement.
```

*/

Driver: emi62 -- EMI 6|2m USB Audio interface

File: emi62/bitstream.fw
Version: 1.0.0.191
Info: DATE= 2002oct28

File: emi62/loader.fw
Version: 1.0.2.002
Info: DATE=10.01.2002

File: emi62/midi.fw
Version: 1.04.062
Info: DATE=16.10.2002

File: emi62/spdif.fw
Version: 1.04.062
Info: DATE=16.10.2002

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information: None

Driver: ti_usb_3410_5052 -- USB TI 3410/5052 serial device

File: ti_3410.fw
Info: firmware 9/10/04 FW3410_Special_StartWdogOnStartPort

File: ti_5052.fw
Info: firmware 9/18/04

Licence: Allegedly GPLv2+, but no source visible. Marked:
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Found in hex form in kernel source.

Driver: ti_usb_3410_5052 -- Multi-Tech USB cell modems

File: mts_cdma.fw
File: mts_gsm.fw
File: mts_edge.fw

Licence: "all firmware components are redistributable in binary form"

per support@multitech.com
Copyright (C) 2005 Multi-Tech Systems, Inc.

Found in hex form in ftp://ftp.multitech.com/wireless/wireless_linux.zip

Driver: ti_usb_3410_5052 -- Multi-Tech USB fax modems

File: mts_mt9234mu.fw
File: mts_mt9234zba.fw

Licence: Unknown

Driver: whiteheat -- USB ConnectTech WhiteHEAT serial device

File: whiteheat.fw
Version: 4.06

File: whiteheat_loader.fw

Licence: Allegedly GPLv2, but no source visible. Marked:
Copyright (C) 2000-2002 ConnectTech Inc

Debug loader claims the following behaviour:

- Port 1 LED flashes when the vend_ax program is running
- Port 2 LED flashes when any SETUP command arrives
- Port 3 LED flashes when any valid VENDOR request occurs
- Port 4 LED flashes when the EXTERNAL RAM DOWNLOAD request occurs

Converted from Intel HEX files, used in our binary representation of ihex.

Driver: cpia2 -- cameras based on Vision's CPiA2

File: cpia2/stv0672_vp4.bin

Licence: Allegedly GPLv2+, but no source visible. Marked:

Copyright (C) 2001 STMicroelectronics, Inc.
Contact: steve.miller@st.com

Description: This file contains patch data for the CPiA2 (stv0672) VP4.

Found in hex form in kernel source.

Driver: dabusb -- Digital Audio Broadcasting (DAB) Receiver for USB and Linux

File: dabusb/firmware.fw
 File: dabusb/bitstream.bin

Licence: Distributable

```
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```

Driver: vicam -- USB 3com HomeConnect (aka vicam)

File: vicam/firmware.fw

Licence: Unknown

Found in hex form in kernel source.

Driver: io_edgeport - USB Inside Out Edgeport Serial Driver

File: edgeport/boot.fw
 File: edgeport/boot2.fw
 File: edgeport/down.fw
 File: edgeport/down2.fw

```
Licence: Allegedly GPLv2+, but no source visible. Marked:
//*****
/* Edgeport/4 Binary Image
/* Generated by HEX2C v1.06
/* Copyright (C) 1998 Inside Out Networks, All rights reserved.
//*****
```

Found in hex form in kernel source.

Driver: io_ti - USB Inside Out Edgeport Serial Driver
 (TI Devices)

File: edgeport/down3.bin

```
Licence:
//*****
```

```
/** Edgeport Binary Image (for TI based products)
/** Generated by TIBin2C v2.00 (watchport)
/** Copyright (C) 2001 Inside Out Networks, All rights reserved.
/*******
```

Found in hex form in kernel source.

Driver: dsp56k - Atari DSP56k support

File: dsp56k/bootstrap.bin
Source: dsp56k/bootstrap.asm
Source: dsp56k/Makefile
Source: dsp56k/concat-bootstrap.pl

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

DSP56001 assembler, buildable with a56 from
<http://www.zdomain.com/a56.html>

Driver: snd-sb16-csp - Sound Blaster 16/AWE CSP support

File: sb16/mulaw_main.csp
File: sb16/alaw_main.csp
File: sb16/ima_adpcm_init.csp
File: sb16/ima_adpcm_playback.csp
File: sb16/ima_adpcm_capture.csp

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```
/*
 * Copyright (c) 1994 Creative Technology Ltd.
 * Microcode files for SB16 Advanced Signal Processor
 */
```

Found in hex form in kernel source.

Driver: qla2xxx - QLogic QLA2XXX Fibre Channel

File: ql2100_fw.bin
Version: 1.19.38 TP
File: ql2200_fw.bin
Version: 2.02.08 TP
File: ql2300_fw.bin
Version: 3.03.28 IPX
File: ql2322_fw.bin

Version: 3.03.28 IPX
File: ql2400_fw.bin
Version: 8.07.00 MID
File: ql2500_fw.bin
Version: 8.07.00 MIDQ

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Available from <http://ldriver.qlogic.com/firmware/>

Driver: orinoco - Agere/Prism/Symbol Orinoco support

File: agere_sta_fw.bin
Version: 9.48 Hermes I
File: agere_ap_fw.bin
Version: 9.48 Hermes I

Licence: Redistributable. See LICENCE.agere for details

Driver: ar9170 - Atheros 802.11n "otus" USB

File: ar9170-1.fw
File: ar9170-2.fw

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Driver: ath9k_htc - Atheros HTC devices (USB)

File: ar9271.fw
File: ar7010.fw
File: ar7010_1_1.fw
File: htc_9271.fw
Version: 1.3.1
File: htc_7010.fw
Version: 1.3.1

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File: ath9k_htc/htc_7010-1.4.0.fw
Version: 1.4.0
File: ath9k_htc/htc_9271-1.4.0.fw
Version: 1.4.0

Licence: Free software. See LICENCE.open-ath9k-htc-firmware for details

Driver: cassini - Sun Cassini

File: sun/cassini.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: slicoss - Alacritech IS-NIC products

File: slicoss/gbdownload.sys

File: slicoss/gbrcvuode.sys

File: slicoss/oasisdbgdownload.sys

File: slicoss/oasisdownload.sys

File: slicoss/oasisrcvuode.sys

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Driver: sxg - Alacritech IS-NIC products

File: sxg/saharadownloadB.sys

File: sxg/saharadbdownloadB.sys

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Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/t3b_psram-1.1.0.bin
File: cxgb3/t3c_psram-1.1.0.bin
File: cxgb3/t3fw-7.0.0.bin
File: cxgb3/t3fw-7.1.0.bin
File: cxgb3/t3fw-7.4.0.bin
File: cxgb3/t3fw-7.10.0.bin
File: cxgb3/t3fw-7.12.0.bin

Licence: GPLv2 or OpenIB.org BSD license, no source visible

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/ael2005_opt_edc.bin
File: cxgb3/ael2005_twx_edc.bin
File: cxgb3/ael2020_twx_edc.bin

Licence:

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Found in hex form in kernel source.

Driver: cxgb4 - Chelsio Terminator 4/5/6 1/10/25/40/100G Ethernet adapter

File: cxgb4/t4fw-1.14.4.0.bin
File: cxgb4/t4fw-1.15.37.0.bin
File: cxgb4/t4fw-1.27.1.0.bin

Link: cxgb4/t4fw.bin -> t4fw-1.27.1.0.bin
File: cxgb4/t5fw-1.14.4.0.bin
File: cxgb4/t5fw-1.15.37.0.bin
File: cxgb4/t5fw-1.27.1.0.bin
Link: cxgb4/t5fw.bin -> t5fw-1.27.1.0.bin
File: cxgb4/t6fw-1.27.1.0.bin
Link: cxgb4/t6fw.bin -> t6fw-1.27.1.0.bin
File: cxgb4/aq1202_fw.cld
File: cxgb4/bcm8483.bin
File: cxgb4/configs/t4-config-default.txt
File: cxgb4/configs/t5-config-default.txt
File: cxgb4/configs/t6-config-default.txt
File: cxgb4/configs/t5-config-hashfilter.txt
File: cxgb4/configs/t6-config-hashfilter.txt
Link: cxgb4/t4-config.txt -> configs/t4-config-default.txt
Link: cxgb4/t5-config.txt -> configs/t5-config-default.txt
Link: cxgb4/t6-config.txt -> configs/t6-config-default.txt

Licence: Redistributable. See LICENCE.chelsio_firmware for details

Driver: e100 -- Intel PRO/100 Ethernet NIC

File: e100/d101m_ucose.bin
File: e100/d101s_ucose.bin
File: e100/d102e_ucose.bin

Licence: Redistributable. See LICENCE.e100 for details

Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.bin
File: acenic/tg2.bin

Licence: Unknown

Found in hex form in kernel source, but source allegedly available at
<http://alteon.shareable.org/>

Driver: tg3 -- Broadcom Tigon3 based gigabit Ethernet cards

File: tigon/tg3.bin
File: tigon/tg3_tso.bin
File: tigon/tg3_tso5.bin
File: tigon/tg357766.bin

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- * notice is accompanying it.

Found in hex form in kernel source.

Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire_rx.bin

File: adaptec/starfire_tx.bin

Licence: Allegedly GPLv2, but no source visible.

Found in hex form in kernel source, with the following notice:

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Driver: libertas - Marvell Libertas fullmac-type 802.11b/g cards

File: libertas/cf8381.bin

File: libertas/cf8381_helper.bin

File: libertas/cf8385.bin

File: libertas/cf8385_helper.bin

File: libertas/gspi8682.bin

File: libertas/gspi8682_helper.bin

File: libertas/gspi8686_v9.bin

File: libertas/gspi8686_v9_helper.bin

File: libertas/gspi8688.bin

File: libertas/gspi8688_helper.bin

File: libertas/sd8385.bin

File: libertas/sd8385_helper.bin

File: libertas/sd8682.bin

File: libertas/sd8682_helper.bin

File: libertas/sd8686_v8.bin

File: libertas/sd8686_v8_helper.bin
File: libertas/sd8686_v9.bin
File: libertas/sd8686_v9_helper.bin
File: libertas/usb8388_v5.bin
File: libertas/usb8388_v9.bin
File: libertas/usb8682.bin
File: mrvl/sd8688.bin
Link: libertas/sd8688.bin -> ../mrvl/sd8688.bin
File: mrvl/sd8688_helper.bin
Link: libertas/sd8688_helper.bin -> ../mrvl/sd8688_helper.bin

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Driver: libertas - Marvell Libertas 802.11b/g cards, OLPC firmware

File: libertas/lbtf_sdio.bin
Version: 9.0.7.p4

File: lbtf_usb.bin
Version: 5.132.3.p1

File: libertas/usb8388_olpc.bin
Version: 5.110.22.p23

Licence: Redistributable. See LICENCE.OLPC for details.

Available from <http://dev.laptop.org/pub/firmware/libertas/>

Driver: mwl8k - Marvell Libertas softmac-type 802.11b/g/n cards

File: mwl8k/fmimage_8687.fw
File: mwl8k/helper_8687.fw
File: mwl8k/fmimage_8366.fw
File: mwl8k/fmimage_8366_ap-1.fw
File: mwl8k/fmimage_8366_ap-2.fw
File: mwl8k/fmimage_8366_ap-3.fw
Version: 5.2.8.16
File: mwl8k/helper_8366.fw

File: mwl8k/fmimage_8764_ap-1.fw
Version: 7.4.0.9

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Driver: mwifiex - Marvell Wi-Fi fullmac-type 802.11n/ac cards

File: mrvl/sd8787_uapsta.bin
Version: W14.68.35.p66

File: mrvl/usb8766_uapsta.bin
Version: 14.68.22.p16

File: mrvl/sd8797_uapsta.bin
Version: W14.68.29.p59

File: mrvl/usb8797_uapsta.bin
Version: W14.68.29.p60

File: mrvl/sd8897_uapsta.bin
Version: W15.68.19.17

File: mrvl/usb8897_uapsta.bin
Version: 15.68.4.p103

File: mrvl/pcie8897_uapsta.bin
Version: W15.68.19.p21

File: mrvl/sd8887_uapsta.bin
Version: W15.68.7.p189

File: mrvl/sd8801_uapsta.bin
Version: W14.68.36.p204

File: mrvl/usb8801_uapsta.bin
Version: W14.68.36.p138

File: mrvl/pcieuart8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/pcieusb8997_combo_v4.bin
Version: W16.68.1.p195

File: mrvl/pcie8997_wlan_v4.bin
Version: W16.68.1.p195

File: mrvl/usbusb8997_combo_v4.bin
Version: W16.68.1.p183

File: mrvl/sdsd8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/sdsd8977_combo_v2.bin
Version: W16.68.1.p195

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Originates from <https://github.com/NXP/mwifiex-firmware.git>

Driver: iwlwifi - Intel Wireless Wifi

File: iwlwifi-3945-2.ucode
Version: 15.32.2.9

File: iwlwifi-4965-2.ucode
Version: 228.61.2.24

File: iwlwifi-5000-5.ucode
Version: 8.83.5.1

File: iwlwifi-5150-2.ucode
Version: 8.24.2.2

File: iwlwifi-1000-5.ucode
Version: 39.31.5.1

File: iwlwifi-6000-4.ucode
Version: 9.221.4.1

File: iwlwifi-6050-5.ucode
Version: 41.28.5.1

File: iwlwifi-6000g2a-6.ucode
Version: 18.168.6.1

File: iwlwifi-6000g2b-6.ucode
Version: 18.168.6.1

File: iwlwifi-135-6.ucode
Version: 18.168.6.1

File: iwlwifi-100-5.ucode
Version: 39.31.5.1

File: iwlwifi-105-6.ucode
Version: 18.168.6.1

File: iwlwifi-2030-6.ucode
Version: 18.168.6.1

File: iwlwifi-2000-6.ucode
Version: 18.168.6.1

File: iwlwifi-7260-17.ucode
Version: 17.bfb58538.0

File: iwlwifi-3160-17.ucode
Version: 17.bfb58538.0

File: iwlwifi-7265-17.ucode
Version: 17.bfb58538.0

File: iwlwifi-7265D-29.ucode
Version: 29.f2390aa8.0

File: iwlwifi-3168-29.ucode
Version: 29.0bd893f3.0

File: iwlwifi-8000C-34.ucode
Version: 34.610288.0

File: iwlwifi-8000C-36.ucode
Version: 36.ca7b901d.0

File: iwlwifi-8265-34.ucode
Version: 34.610288.0

File: iwlwifi-8265-36.ucode
Version: 36.ca7b901d.0

File: iwlwifi-9000-pu-b0-jf-b0-34.ucode
Version: 34.ba501b11.0

File: iwlwifi-9000-pu-b0-jf-b0-38.ucode
Version: 38.755cfdd8.0

File: iwlwifi-9000-pu-b0-jf-b0-46.ucode
Version: 46.ff18e32a.0

File: iwlwifi-9260-th-b0-jf-b0-34.ucode
Version: 34.ba501b11.0

File: iwlwifi-9260-th-b0-jf-b0-38.ucode
Version: 38.755cfdd8.0

File: iwlwifi-9260-th-b0-jf-b0-46.ucode
Version: 46.ff18e32a.0

File: iwlwifi-cc-a0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-cc-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-so-a0-gf-a0.pnvm

File: iwlwifi-so-a0-gf4-a0.pnvm

File: iwlwifi-ty-a0-gf-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-cc-a0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-Qu-b0-hr-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-Qu-b0-jf-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-Qu-c0-hr-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-Qu-c0-jf-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-QuZ-a0-hr-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-QuZ-a0-jf-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-ty-a0-gf-a0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-cc-a0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-Qu-b0-hr-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-Qu-b0-jf-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-Qu-c0-hr-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-Qu-c0-jf-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-QuZ-a0-hr-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-QuZ-a0-jf-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-ty-a0-gf-a0-72.ucode
Version: 72.a764baac.0

File: iwlwifi-so-a0-gf4-a0-72.ucode
Version: 72.a764baac.0

File: iwlwifi-so-a0-gf-a0-72.ucode
Version: 72.a764baac.0

File: iwlwifi-so-a0-hr-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-so-a0-jf-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-cc-a0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-b0-hr-b0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-b0-jf-b0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-c0-hr-b0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-c0-jf-b0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-QuZ-a0-hr-b0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-QuZ-a0-jf-b0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-ty-a0-gf-a0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-gf4-a0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-gf-a0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-hr-b0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-jf-b0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-cc-a0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-Qu-b0-hr-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-Qu-b0-jf-b0-74.ucode

Version: 74.a5e9588b.0

File: iwlwifi-Qu-c0-hr-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-Qu-c0-jf-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-QuZ-a0-hr-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-QuZ-a0-jf-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-ty-a0-gf-a0-74.ucode
Version: 74.fe17486e.0

File: iwlwifi-so-a0-gf4-a0-74.ucode
Version: 74.fe17486e.0

File: iwlwifi-so-a0-gf-a0-74.ucode
Version: 74.fe17486e.0

File: iwlwifi-so-a0-hr-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-so-a0-jf-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-cc-a0-77.ucode
Version: 74.206b0184.0

File: iwlwifi-Qu-b0-hr-b0-77.ucode
Version: 74.206b0184.0

File: iwlwifi-Qu-b0-jf-b0-77.ucode
Version: 74.206b0184.0

File: iwlwifi-Qu-c0-hr-b0-77.ucode
Version: 74.206b0184.0

File: iwlwifi-Qu-c0-jf-b0-77.ucode
Version: 74.206b0184.0

File: iwlwifi-QuZ-a0-hr-b0-77.ucode
Version: 74.206b0184.0

File: iwlwifi-QuZ-a0-jf-b0-77.ucode
Version: 74.206b0184.0

File: iwlwifi-ty-a0-gf-a0-77.ucode
Version: 74.f92b5fed.0

File: iwlwifi-ty-a0-gf-a0-78.ucode
Version: 75.3bfdc55f.0

File: iwlwifi-ty-a0-gf-a0-79.ucode
Version: 76.27f1c37b.0

File: iwlwifi-ty-a0-gf-a0-81.ucode
Version: 78.31fc9ae6.0

File: iwlwifi-so-a0-gf4-a0-77.ucode
Version: 74.f92b5fed.0

File: iwlwifi-so-a0-gf4-a0-78.ucode
Version: 75.3bfdc55f.0

File: iwlwifi-so-a0-gf4-a0-79.ucode
Version: 76.27f1c37b.0

File: iwlwifi-so-a0-gf4-a0-81.ucode
Version: 78.31fc9ae6.0

File: iwlwifi-so-a0-gf-a0-77.ucode
Version: 74.f92b5fed.0

File: iwlwifi-so-a0-gf-a0-78.ucode
Version: 74.3bfdc55f.0

File: iwlwifi-so-a0-gf-a0-79.ucode
Version: 75.27f1c37b.0

File: iwlwifi-so-a0-gf-a0-81.ucode
Version: 78.31fc9ae6.0

File: iwlwifi-so-a0-hr-b0-77.ucode
Version: 74.f92b5fed.0

File: iwlwifi-so-a0-hr-b0-79.ucode
Version: 75.27f1c37b.0

File: iwlwifi-so-a0-hr-b0-81.ucode
Version: 78.31fc9ae6.0

File: iwlwifi-so-a0-jf-b0-77.ucode
Version: 74.f92b5fed.0

File: iwlwifi-ty-a0-gf-a0.pnvm

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Also available from <http://wireless.kernel.org/en/users/Drivers/iwlwifi#Firmware>

Driver: ipu3-imgu - Intel IPU3 (3rd Gen Image Processing Unit) driver

File: intel/irci_irci_ecr-master_20161208_0213_20170112_1500.bin

Version: irci_irci_ecr-master_20161208_0213_20170112_1500

md5sum: 59abc311fce49c5a180b5a8a3917912d

Link: intel/ipu3-fw.bin -> irci_irci_ecr-master_20161208_0213_20170112_1500.bin

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Driver: cx231xx - Conexant Cx23100/101/102 USB broadcast A/V decoder

File: v4l-cx231xx-avcore-01.fw

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Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

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Found in hex form in kernel source.

Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

Licence:

```

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 * COMBINATION WITH THE 3c990img.h MICROCODE SOFTWARE
 */

```

Found in hex form in kernel source.

Driver: yam - YAM driver for AX.25

File: yam/1200.bin

File: yam/9600.bin

Licence:

* (C) F6FBB 1998

Found in hex form in kernel source.

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis
File: cis/PCMLM28.cis
File: cis/DP83903.cis
File: cis/NE2K.cis
File: cis/tamarack.cis
File: cis/PE-200.cis
File: cis/PE520.cis
Source: cis/

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis
Source: cis/src/3CXEM556.cis

Licence: Dual GPLv2/MPL

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Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis
Source: cis/src/3CCFEM556.cis

Licence: Dual GPLv2/MPL

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Driver: serial_cs - Serial PCMCIA adapter

File: cis/MT5634ZLX.cis
File: cis/RS-COM-2P.cis
File: cis/COMpad2.cis

File: cis/COMpad4.cis
Source: cis/src/MT5634ZLX.cis
Source: cis/src/RS-COM-2P.cis
Source: cis/src/COMpad2.cis
Source: cis/src/COMpad4.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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Driver: serial_cs - Serial PCMCIA adapter

File: cis/SW_555_SER.cis
File: cis/SW_7xx_SER.cis
File: cis/SW_8xx_SER.cis

Licence: GPLv3. See GPL-3 for details.

Copyright Sierra Wireless

Driver: smc91c92_cs - SMC 91Cxx PCMCIA

File: ositech/Xilinx7OD.bin

Licence: Allegedly GPL, but no source visible. Marked:
This file contains the firmware of Seven of Diamonds from OSITECH.
(Special thanks to Kevin MacPherson of OSITECH)

Found in hex form in kernel source.

Driver: cx23418 - Conexant PCI Broadcast A/V with MPEG encoder

File: v4l-cx23418-apu.fw
File: v4l-cx23418-cpu.fw
File: v4l-cx23418-dig.fw

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Driver: cx23885 - Conexant PCI Express Broadcast A/V decoder

File: v4l-cx23885-avcore-01.fw

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Driver: cx23840 - Conexant sideport Broadcast A/V decoder

File: v4l-cx25840.fw

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Driver: qllogicpti - PTI Qlogic, ISP Driver

File: qllogic/isp1000.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: myri_sbuse - MyriCOM Gigabit Ethernet

File: myricom/lanai.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: bnx2x: Broadcom Everest

File: bnx2x/bnx2x-e1-7.13.1.0.fw
File: bnx2x/bnx2x-e1-7.13.11.0.fw
File: bnx2x/bnx2x-e1-7.13.15.0.fw
File: bnx2x/bnx2x-e1-7.13.21.0.fw
File: bnx2x/bnx2x-e1h-7.13.1.0.fw
File: bnx2x/bnx2x-e1h-7.13.11.0.fw
File: bnx2x/bnx2x-e1h-7.13.15.0.fw
File: bnx2x/bnx2x-e1h-7.13.21.0.fw
File: bnx2x/bnx2x-e2-7.13.1.0.fw
File: bnx2x/bnx2x-e2-7.13.11.0.fw
File: bnx2x/bnx2x-e2-7.13.15.0.fw
File: bnx2x/bnx2x-e2-7.13.21.0.fw

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Found in hex form in kernel source.

Driver: bnx2 - Broadcom NetXtremeII

File: bnx2/bnx2-mips-06-6.2.3.fw
File: bnx2/bnx2-mips-09-6.2.1b.fw
File: bnx2/bnx2-rv2p-06-6.0.15.fw
File: bnx2/bnx2-rv2p-09-6.0.17.fw
File: bnx2/bnx2-rv2p-09ax-6.0.17.fw

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Found in hex form in kernel source.

Driver: netxen_nic - NetXen Multi port (1/10) Gigabit Ethernet NIC

File: phanfw.bin

Version: 4.0.590

Licence: Redistributable. See LICENCE.phanfw for details.

Available from http://ldriver.qlogic.com/firmware/netxen_nic/new/

Driver: dvb-ttpci -- AV7110 cards

File: av7110/bootcode.bin

Source: av7110/Boot.S

Source: av7110/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

ARM assembly source code from <https://linuxtv.org/downloads/firmware/Boot.S>

Driver: snd-wavefront - ISA WaveFront sound card

File: yamaha/yss225_registers.bin

Licence: Allegedly GPLv2+, but no source visible.

Found in hex form in kernel source, with the following comment:

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Driver: rt61pci - Ralink RT2561, RT2561S, RT2661 wireless MACs

File: rt2561.bin

File: rt2561s.bin

File: rt2661.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from <http://www.ralinktech.com/ralink/Home/Support/Linux.html>

Driver: rt73usb - Ralink RT2571W, RT2671 wireless MACs

File: rt73.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from <http://www.ralinktech.com/ralink/Home/Support/Linux.html>

Driver: mt7601u - MediaTek MT7601U Wireless MACs

File: mt7601u.bin

Version: 34

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Downloaded from <http://www.mediatek.com/en/downloads/>

Driver: rt2800pci - Ralink RT2860, RT2890, RT3090, RT3290, RT5390 wireless MACs

File: rt2860.bin

Version: 40

File: rt3290.bin

Version: 37

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Binary file supplied originally by Shiang Tu <shiang_tu@ralinktech.com>, latest from <http://www.mediatek.com/en/downloads1/downloads/>

Driver: rt2860sta - Ralink RT3090 wireless MACs

Link: rt3090.bin -> rt2860.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Driver: rt2800usb - Ralink RT2870, RT3070, RT3071, RT3072, RT5370 wireless MACs

File: rt2870.bin

Version: 36

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Binary file supplied originally by Shiang Tu <shiang_tu@ralinktech.com>, latest from <http://www.mediatek.com/en/downloads1/downloads/>

Driver: rt2870sta - Ralink RT2870, RT3070, RT3071 wireless MACs

Link: rt3070.bin -> rt2870.bin

File: rt3071.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

rt3071.bin is a copy of bytes 4096-8191 of rt2870.bin for compatibility.

Driver: usbdx/usbdxfast/usbdxsigma - usbdx data acquisition cards

File: usbdx_firmware.bin

File: usbdxfast_firmware.bin

File: usbdxsigma_firmware.bin

Source: usbdx/

Licence: GPLv2. See GPL-2 for details.

Provided from the author, Bernd Porr <BerndPorr@f2s.com>

Driver: xc4000 - Xceive 4000 Tuner driver

File: dvb-fe-xc4000-1.4.1.fw

Version: 1.4.1

Licence: Redistributable. See LICENCE.xc4000 for details

Driver: xc5000 - Xceive 5000 Tuner driver

File: dvb-fe-xc5000-1.6.114.fw

Version: 1.6.114

File: dvb-fe-xc5000c-4.1.30.7.fw

Version: 4.1.30.7

Licence: Redistributable. See LICENCE.xc5000 and LICENCE.xc5000c for details

Driver: dib0700 - DiBcom dib0700 USB DVB bridge driver

File: dvb-usb-dib0700-1.20.fw

Version: 1.20

Licence: Redistributable. See LICENSE.dib0700 for details

Driver: ath3k - DFU Driver for Atheros bluetooth chipset AR3011

File: ath3k-1.fw

Version: 1.0

Fix EEPROM radio table issue and change PID to 3005

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: mga - Matrox G200/G400/G550

File: matrox/g200_warp.fw

File: matrox/g400_warp.fw

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Found in hex form in kernel source.

Driver: r128 - ATI Rage 128

File: r128/r128_cce.bin

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Driver: radeon - ATI Radeon

File: radeon/R100_cp.bin

File: radeon/R200_cp.bin

File: radeon/R300_cp.bin

File: radeon/R420_cp.bin

File: radeon/RS600_cp.bin

File: radeon/RS690_cp.bin

File: radeon/R520_cp.bin

File: radeon/R600_pfp.bin

File: radeon/R600_me.bin

File: radeon/RV610_pfp.bin

File: radeon/RV610_me.bin
File: radeon/RV630_pfp.bin
File: radeon/RV630_me.bin
File: radeon/RV620_pfp.bin
File: radeon/RV620_me.bin
File: radeon/RV635_pfp.bin
File: radeon/RV635_me.bin
File: radeon/RV670_pfp.bin
File: radeon/RV670_me.bin
File: radeon/RS780_pfp.bin
File: radeon/RS780_me.bin
File: radeon/RV770_pfp.bin
File: radeon/RV770_me.bin
File: radeon/RV730_pfp.bin
File: radeon/RV730_me.bin
File: radeon/RV710_pfp.bin
File: radeon/RV710_me.bin

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Found in hex form in kernel source.

Driver: radeon - ATI Radeon

File: radeon/R600_rlc.bin
File: radeon/R600_uvd.bin

File: radeon/RS780_uvd.bin
File: radeon/R700_rlc.bin
File: radeon/RV710_uvd.bin
File: radeon/RV710_smc.bin
File: radeon/RV730_smc.bin
File: radeon/RV740_smc.bin
File: radeon/RV770_smc.bin
File: radeon/RV770_uvd.bin
File: radeon/CEDAR_me.bin
File: radeon/CEDAR_pfp.bin
File: radeon/CEDAR_rlc.bin
File: radeon/CEDAR_smc.bin
File: radeon/CYPRESS_me.bin
File: radeon/CYPRESS_pfp.bin
File: radeon/CYPRESS_rlc.bin
File: radeon/CYPRESS_uvd.bin
File: radeon/CYPRESS_smc.bin
File: radeon/JUNIPER_me.bin
File: radeon/JUNIPER_pfp.bin
File: radeon/JUNIPER_rlc.bin
File: radeon/JUNIPER_smc.bin
File: radeon/REDWOOD_me.bin
File: radeon/REDWOOD_pfp.bin
File: radeon/REDWOOD_rlc.bin
File: radeon/REDWOOD_smc.bin
File: radeon/PALM_me.bin
File: radeon/PALM_pfp.bin
File: radeon/SUMO_rlc.bin
File: radeon/SUMO_uvd.bin
File: radeon/BARTS_mc.bin
File: radeon/BARTS_me.bin
File: radeon/BARTS_pfp.bin
File: radeon/BARTS_smc.bin
File: radeon/BTC_rlc.bin
File: radeon/CAICOS_mc.bin
File: radeon/CAICOS_me.bin
File: radeon/CAICOS_pfp.bin
File: radeon/CAICOS_smc.bin
File: radeon/TURKS_mc.bin
File: radeon/TURKS_me.bin
File: radeon/TURKS_pfp.bin
File: radeon/TURKS_smc.bin
File: radeon/CAYMAN_mc.bin
File: radeon/CAYMAN_me.bin
File: radeon/CAYMAN_pfp.bin
File: radeon/CAYMAN_rlc.bin
File: radeon/CAYMAN_smc.bin
File: radeon/SUMO_pfp.bin
File: radeon/SUMO_me.bin
File: radeon/SUMO2_pfp.bin

File: radeon/SUMO2_me.bin
File: radeon/ARUBA_me.bin
File: radeon/ARUBA_pfp.bin
File: radeon/ARUBA_rlc.bin
File: radeon/PITCAIRN_ce.bin
File: radeon/PITCAIRN_mc.bin
File: radeon/PITCAIRN_mc2.bin
File: radeon/PITCAIRN_me.bin
File: radeon/PITCAIRN_pfp.bin
File: radeon/PITCAIRN_rlc.bin
File: radeon/PITCAIRN_smc.bin
File: radeon/TAHITI_ce.bin
File: radeon/TAHITI_mc.bin
File: radeon/TAHITI_mc2.bin
File: radeon/TAHITI_me.bin
File: radeon/TAHITI_pfp.bin
File: radeon/TAHITI_rlc.bin
File: radeon/TAHITI_uvd.bin
File: radeon/TAHITI_smc.bin
File: radeon/TAHITI_vce.bin
File: radeon/VERDE_ce.bin
File: radeon/VERDE_mc.bin
File: radeon/VERDE_mc2.bin
File: radeon/VERDE_me.bin
File: radeon/VERDE_pfp.bin
File: radeon/VERDE_rlc.bin
File: radeon/VERDE_smc.bin
File: radeon/OLAND_ce.bin
File: radeon/OLAND_mc.bin
File: radeon/OLAND_mc2.bin
File: radeon/OLAND_me.bin
File: radeon/OLAND_pfp.bin
File: radeon/OLAND_rlc.bin
File: radeon/OLAND_smc.bin
File: radeon/HAINAN_ce.bin
File: radeon/HAINAN_mc.bin
File: radeon/HAINAN_mc2.bin
File: radeon/HAINAN_me.bin
File: radeon/HAINAN_pfp.bin
File: radeon/HAINAN_rlc.bin
File: radeon/HAINAN_smc.bin
File: radeon/BONAIRE_ce.bin
File: radeon/BONAIRE_mc.bin
File: radeon/BONAIRE_mc2.bin
File: radeon/BONAIRE_me.bin
File: radeon/BONAIRE_mec.bin
File: radeon/BONAIRE_pfp.bin
File: radeon/BONAIRE_rlc.bin
File: radeon/BONAIRE_sdma.bin
File: radeon/BONAIRE_uvd.bin

File: radeon/BONAIRE_smc.bin
File: radeon/BONAIRE_vce.bin
File: radeon/KABINI_ce.bin
File: radeon/KABINI_me.bin
File: radeon/KABINI_mec.bin
File: radeon/KABINI_pfp.bin
File: radeon/KABINI_rlc.bin
File: radeon/KABINI_sdma.bin
File: radeon/KAVERI_ce.bin
File: radeon/KAVERI_me.bin
File: radeon/KAVERI_mec.bin
File: radeon/KAVERI_pfp.bin
File: radeon/KAVERI_rlc.bin
File: radeon/KAVERI_sdma.bin
File: radeon/HAWAII_ce.bin
File: radeon/HAWAII_mc.bin
File: radeon/HAWAII_mc2.bin
File: radeon/HAWAII_me.bin
File: radeon/HAWAII_mec.bin
File: radeon/HAWAII_pfp.bin
File: radeon/HAWAII_rlc.bin
File: radeon/HAWAII_sdma.bin
File: radeon/HAWAII_smc.bin
File: radeon/MULLINS_ce.bin
File: radeon/MULLINS_me.bin
File: radeon/MULLINS_mec.bin
File: radeon/MULLINS_pfp.bin
File: radeon/MULLINS_rlc.bin
File: radeon/MULLINS_sdma.bin
File: radeon/pitcairn_ce.bin
File: radeon/pitcairn_k_smc.bin
File: radeon/pitcairn_mc.bin
File: radeon/pitcairn_me.bin
File: radeon/pitcairn_pfp.bin
File: radeon/pitcairn_rlc.bin
File: radeon/pitcairn_smc.bin
File: radeon/tahiti_ce.bin
File: radeon/tahiti_k_smc.bin
File: radeon/tahiti_mc.bin
File: radeon/tahiti_me.bin
File: radeon/tahiti_pfp.bin
File: radeon/tahiti_rlc.bin
File: radeon/tahiti_smc.bin
File: radeon/verde_ce.bin
File: radeon/verde_k_smc.bin
File: radeon/verde_mc.bin
File: radeon/verde_me.bin
File: radeon/verde_pfp.bin
File: radeon/verde_rlc.bin
File: radeon/verde_smc.bin

File: radeon/oland_ce.bin
File: radeon/oland_k_smc.bin
File: radeon/oland_mc.bin
File: radeon/oland_me.bin
File: radeon/oland_pfp.bin
File: radeon/oland_rlc.bin
File: radeon/oland_smc.bin
File: radeon/hainan_ce.bin
File: radeon/hainan_k_smc.bin
File: radeon/hainan_mc.bin
File: radeon/hainan_me.bin
File: radeon/hainan_pfp.bin
File: radeon/hainan_rlc.bin
File: radeon/hainan_smc.bin
File: radeon/bonaire_ce.bin
File: radeon/bonaire_k_smc.bin
File: radeon/bonaire_mc.bin
File: radeon/bonaire_me.bin
File: radeon/bonaire_mec.bin
File: radeon/bonaire_pfp.bin
File: radeon/bonaire_rlc.bin
File: radeon/bonaire_sdma.bin
File: radeon/bonaire_sdma1.bin
File: radeon/bonaire_smc.bin
File: radeon/bonaire_uvd.bin
File: radeon/bonaire_vce.bin
File: radeon/kabini_ce.bin
File: radeon/kabini_me.bin
File: radeon/kabini_mec.bin
File: radeon/kabini_pfp.bin
File: radeon/kabini_rlc.bin
File: radeon/kabini_sdma.bin
File: radeon/kabini_sdma1.bin
File: radeon/kabini_uvd.bin
File: radeon/kabini_vce.bin
File: radeon/kaveri_ce.bin
File: radeon/kaveri_me.bin
File: radeon/kaveri_mec.bin
File: radeon/kaveri_mec2.bin
File: radeon/kaveri_pfp.bin
File: radeon/kaveri_rlc.bin
File: radeon/kaveri_sdma.bin
File: radeon/kaveri_sdma1.bin
File: radeon/kaveri_uvd.bin
File: radeon/kaveri_vce.bin
File: radeon/hawaii_ce.bin
File: radeon/hawaii_k_smc.bin
File: radeon/hawaii_mc.bin
File: radeon/hawaii_me.bin
File: radeon/hawaii_mec.bin

File: radeon/hawaii_pfp.bin
File: radeon/hawaii_rlc.bin
File: radeon/hawaii_sdma.bin
File: radeon/hawaii_sdma1.bin
File: radeon/hawaii_smc.bin
File: radeon/hawaii_uvd.bin
File: radeon/hawaii_vce.bin
File: radeon/mullins_ce.bin
File: radeon/mullins_me.bin
File: radeon/mullins_mec.bin
File: radeon/mullins_pfp.bin
File: radeon/mullins_rlc.bin
File: radeon/mullins_sdma.bin
File: radeon/mullins_sdma1.bin
File: radeon/mullins_uvd.bin
File: radeon/mullins_vce.bin
File: radeon/banks_k_2_smc.bin
File: radeon/si58_mc.bin

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Driver: amdgpu - AMD Radeon

File: amdgpu/tahiti_ce.bin
File: amdgpu/tahiti_k_smc.bin
File: amdgpu/tahiti_mc.bin
File: amdgpu/tahiti_me.bin
File: amdgpu/tahiti_pfp.bin
File: amdgpu/tahiti_rlc.bin
File: amdgpu/tahiti_smc.bin
File: amdgpu/tahiti_uvd.bin
File: amdgpu/pitcairn_ce.bin
File: amdgpu/pitcairn_k_smc.bin
File: amdgpu/pitcairn_mc.bin
File: amdgpu/pitcairn_me.bin
File: amdgpu/pitcairn_pfp.bin
File: amdgpu/pitcairn_rlc.bin
File: amdgpu/pitcairn_smc.bin
File: amdgpu/pitcairn_uvd.bin
File: amdgpu/verde_ce.bin
File: amdgpu/verde_k_smc.bin
File: amdgpu/verde_mc.bin
File: amdgpu/verde_me.bin
File: amdgpu/verde_pfp.bin
File: amdgpu/verde_rlc.bin
File: amdgpu/verde_smc.bin
File: amdgpu/verde_uvd.bin
File: amdgpu/hainan_ce.bin

File: amdgpu/hainan_k_smc.bin
File: amdgpu/hainan_mc.bin
File: amdgpu/hainan_me.bin
File: amdgpu/hainan_pfp.bin
File: amdgpu/hainan_rlc.bin
File: amdgpu/hainan_smc.bin
File: amdgpu/oland_ce.bin
File: amdgpu/oland_k_smc.bin
File: amdgpu/oland_mc.bin
File: amdgpu/oland_me.bin
File: amdgpu/oland_pfp.bin
File: amdgpu/oland_rlc.bin
File: amdgpu/oland_smc.bin
File: amdgpu/oland_uvd.bin
File: amdgpu/si58_mc.bin
File: amdgpu/banks_k_2_smc.bin
File: amdgpu/bonaire_ce.bin
File: amdgpu/bonaire_k_smc.bin
File: amdgpu/bonaire_mc.bin
File: amdgpu/bonaire_me.bin
File: amdgpu/bonaire_mec.bin
File: amdgpu/bonaire_pfp.bin
File: amdgpu/bonaire_rlc.bin
File: amdgpu/bonaire_sdma.bin
File: amdgpu/bonaire_sdma1.bin
File: amdgpu/bonaire_smc.bin
File: amdgpu/bonaire_uvd.bin
File: amdgpu/bonaire_vce.bin
File: amdgpu/hawaii_ce.bin
File: amdgpu/hawaii_k_smc.bin
File: amdgpu/hawaii_mc.bin
File: amdgpu/hawaii_me.bin
File: amdgpu/hawaii_mec.bin
File: amdgpu/hawaii_pfp.bin
File: amdgpu/hawaii_rlc.bin
File: amdgpu/hawaii_sdma.bin
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File: amdgpu/psp_13_0_4_toc.bin
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File: amdgpu/psp_13_0_5_ta.bin
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File: amdgpu/vcn_4_0_2.bin
File: amdgpu/vcn_4_0_4.bin

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Driver: s2255drv

File: f2255usb.bin
Version: 1.2.8

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Driver: rtl8192e - Realtek 8192 PCI wireless driver

File: RTL8192E/boot.img
File: RTL8192E/data.img
File: RTL8192E/main.img

Licence: Redistributable, provided by Realtek in their driver source download.

Driver: lgs8gxx - Legend Silicon GB20600 demodulator driver

File: lgs8g75.fw

Licence: Unknown

Driver: ib_qib - QLogic Infiniband

File: qlogic/sd7220.fw

Licence:

```
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```

Found in hex form in kernel source.

Driver: qed - QLogic 4xxxx Ethernet Driver Core Module.

File: qed/qed_init_values_zipped-8.4.2.0.bin

File: qed/qed_init_values_zipped-8.7.3.0.bin

File: qed/qed_init_values_zipped-8.10.5.0.bin

File: qed/qed_init_values-8.10.9.0.bin
File: qed/qed_init_values_zipped-8.10.10.0.bin
File: qed/qed_init_values-8.14.6.0.bin
File: qed/qed_init_values_zipped-8.15.3.0.bin
File: qed/qed_init_values-8.18.9.0.bin
File: qed/qed_init_values_zipped-8.20.0.0.bin
File: qed/qed_init_values-8.20.0.0.bin
File: qed/qed_init_values-8.30.12.0.bin
File: qed/qed_init_values_zipped-8.33.1.0.bin
File: qed/qed_init_values_zipped-8.33.11.0.bin
File: qed/qed_init_values-8.33.12.0.bin
File: qed/qed_init_values_zipped-8.37.2.0.bin
File: qed/qed_init_values_zipped-8.37.7.0.bin
File: qed/qed_init_values-8.37.7.0.bin
File: qed/qed_init_values-8.40.33.0.bin
File: qed/qed_init_values_zipped-8.42.2.0.bin
File: qed/qed_init_values_zipped-8.59.1.0.bin

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Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle IV Chipset

File: ueagle-atm/CMV4p.bin.v2
File: ueagle-atm/DSP4p.bin
File: ueagle-atm/eagleIV.fw
Version: 1.0

Licence: Redistributable. See LICENCE.ueagle-atm4-firmware for details

Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle I,II,III

File: ueagle-atm/930-fpga.bin
File: ueagle-atm/CMVeIWO.bin
File: ueagle-atm/CMVepFR10.bin
File: ueagle-atm/DSP9p.bin
File: ueagle-atm/eagleIII.fw
File: ueagle-atm/adi930.fw
File: ueagle-atm/CMVep.bin
File: ueagle-atm/CMVepFR.bin

File: ueagle-atm/DSPei.bin
File: ueagle-atm/CMV9i.bin
File: ueagle-atm/CMVepES03.bin
File: ueagle-atm/CMVepIT.bin
File: ueagle-atm/DSPep.bin
File: ueagle-atm/CMV9p.bin
File: ueagle-atm/CMVepES.bin
File: ueagle-atm/CMVepWO.bin
File: ueagle-atm/eagleI.fw
File: ueagle-atm/CMVeI.bin
File: ueagle-atm/CMVepFR04.bin
File: ueagle-atm/DSP9i.bin
File: ueagle-atm/eagleII.fw
Version: 1.1

Licence: Redistributable. Based on
<https://mail.gna.org/public/eagleusb-dev/2004-11/msg00172.html>

Driver: vxge - Exar X3100 Series 10GbE PCIe I/O Virtualized Server Adapter

File: vxge/X3fw.ncf
File: vxge/X3fw-pxe.ncf
Version: 1.8.1

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Driver: brcsmac - Broadcom 802.11n softmac wireless LAN driver.

File: brcm/bcm43xx-0.fw
File: brcm/bcm43xx_hdr-0.fw
Version: 610.812

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

Driver: brcmfmac - Broadcom 802.11n fullmac wireless LAN driver.

File: brcm/bcm4329-fullmac-4.bin

File: brcm/brcmfmac43236b.bin
File: brcm/brcmfmac4329-sdio.bin
File: brcm/brcmfmac4330-sdio.bin
File: brcm/brcmfmac4334-sdio.bin
File: brcm/brcmfmac4335-sdio.bin
File: brcm/brcmfmac43241b0-sdio.bin
File: brcm/brcmfmac43241b4-sdio.bin
File: brcm/brcmfmac43241b5-sdio.bin
File: brcm/brcmfmac43242a.bin
File: brcm/brcmfmac43143.bin
File: brcm/brcmfmac43143-sdio.bin
File: brcm/brcmfmac43430a0-sdio.bin
File: brcm/brcmfmac4350c2-pcie.bin
File: brcm/brcmfmac4350-pcie.bin
File: brcm/brcmfmac43569.bin
File: brcm/brcmfmac4358-pcie.bin
File: brcm/brcmfmac43602-pcie.bin
File: brcm/brcmfmac43602-pcie.ap.bin
File: brcm/brcmfmac4366b-pcie.bin
File: brcm/brcmfmac4366c-pcie.bin
File: brcm/brcmfmac4371-pcie.bin

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

File: brcm/brcmfmac4373.bin
File: cypress/cyfmac43012-sdio.bin
Link: brcm/brcmfmac43012-sdio.bin -> ../cypress/cyfmac43012-sdio.bin
File: cypress/cyfmac43012-sdio.clm_blob
Link: brcm/brcmfmac43012-sdio.clm_blob -> ../cypress/cyfmac43012-sdio.clm_blob
File: cypress/cyfmac43340-sdio.bin
Link: brcm/brcmfmac43340-sdio.bin -> ../cypress/cyfmac43340-sdio.bin
File: cypress/cyfmac43362-sdio.bin
Link: brcm/brcmfmac43362-sdio.bin -> ../cypress/cyfmac43362-sdio.bin
File: cypress/cyfmac4339-sdio.bin
Link: brcm/brcmfmac4339-sdio.bin -> ../cypress/cyfmac4339-sdio.bin
File: cypress/cyfmac43430-sdio.bin
Link: brcm/brcmfmac43430-sdio.bin -> ../cypress/cyfmac43430-sdio.bin
File: cypress/cyfmac43430-sdio.clm_blob
Link: brcm/brcmfmac43430-sdio.clm_blob -> ../cypress/cyfmac43430-sdio.clm_blob
File: cypress/cyfmac43455-sdio.bin
Link: brcm/brcmfmac43455-sdio.bin -> ../cypress/cyfmac43455-sdio.bin
File: cypress/cyfmac43455-sdio.clm_blob
Link: brcm/brcmfmac43455-sdio.clm_blob -> ../cypress/cyfmac43455-sdio.clm_blob
File: cypress/cyfmac4354-sdio.bin
Link: brcm/brcmfmac4354-sdio.bin -> ../cypress/cyfmac4354-sdio.bin
File: cypress/cyfmac4354-sdio.clm_blob
Link: brcm/brcmfmac4354-sdio.clm_blob -> ../cypress/cyfmac4354-sdio.clm_blob
File: cypress/cyfmac4356-pcie.bin
Link: brcm/brcmfmac4356-pcie.bin -> ../cypress/cyfmac4356-pcie.bin
File: cypress/cyfmac4356-pcie.clm_blob

Link: brcm/brcmfmac4356-pcie.clm_blob -> ../cypress/cyfmac4356-pcie.clm_blob
 File: cypress/cyfmac4356-sdio.bin
 Link: brcm/brcmfmac4356-sdio.bin -> ../cypress/cyfmac4356-sdio.bin
 File: cypress/cyfmac4356-sdio.clm_blob
 Link: brcm/brcmfmac4356-sdio.clm_blob -> ../cypress/cyfmac4356-sdio.clm_blob
 File: cypress/cyfmac43570-pcie.bin
 Link: brcm/brcmfmac43570-pcie.bin -> ../cypress/cyfmac43570-pcie.bin
 File: cypress/cyfmac43570-pcie.clm_blob
 Link: brcm/brcmfmac43570-pcie.clm_blob -> ../cypress/cyfmac43570-pcie.clm_blob
 File: cypress/cyfmac4373-sdio.bin
 Link: brcm/brcmfmac4373-sdio.bin -> ../cypress/cyfmac4373-sdio.bin
 File: cypress/cyfmac4373-sdio.clm_blob
 Link: brcm/brcmfmac4373-sdio.clm_blob -> ../cypress/cyfmac4373-sdio.clm_blob
 File: cypress/cyfmac54591-pcie.bin
 Link: brcm/brcmfmac54591-pcie.bin -> ../cypress/cyfmac54591-pcie.bin
 File: cypress/cyfmac54591-pcie.clm_blob
 Link: brcm/brcmfmac54591-pcie.clm_blob -> ../cypress/cyfmac54591-pcie.clm_blob

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File: "brcm/brcmfmac43241b4-sdio.Advantech-MICA-071.txt"
 File: "brcm/brcmfmac43241b4-sdio.Intel Corp.-VALLEYVIEW C0 PLATFORM.txt"
 File: "brcm/brcmfmac4330-sdio.Prowise-PT301.txt"
 File: "brcm/brcmfmac43340-sdio.ASUSTeK COMPUTER INC.-TF103CE.txt"
 File: "brcm/brcmfmac43340-sdio.meegopad-t08.txt"
 File: "brcm/brcmfmac43340-sdio.pov-tab-p1006w-data.txt"
 File: "brcm/brcmfmac43340-sdio.predia-basic.txt"
 File: "brcm/brcmfmac43362-sdio.WC121.txt"
 File: "brcm/brcmfmac43362-sdio.cubietech,cubietruck.txt"
 Link: brcm/brcmfmac43362-sdio.kobo,aura.txt -> brcmfmac43362-sdio.WC121.txt
 Link: brcm/brcmfmac43362-sdio.kobo,tolino-shine2hd.txt ->
 brcmfmac43362-sdio.WC121.txt
 Link: brcm/brcmfmac43362-sdio.lemaker,bananapro.txt ->
 brcmfmac43362-sdio.cubietech,cubietruck.txt
 File: "brcm/brcmfmac43430a0-sdio.ilife-S806.txt"
 File: "brcm/brcmfmac43430a0-sdio.jumper-ezpad-mini3.txt"
 File: "brcm/brcmfmac43430a0-sdio.ONDA-V80 PLUS.txt"
 File: "brcm/brcmfmac43430-sdio.AP6212.txt"
 Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-plus.txt ->
 brcmfmac43430-sdio.AP6212.txt
 Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-zero.txt ->
 brcmfmac43430-sdio.AP6212.txt
 Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-ultra.txt ->
 brcmfmac43430-sdio.AP6212.txt
 Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m3.txt -> brcmfmac43430-sdio.AP6212.txt
 Link: brcm/brcmfmac43430-sdio.friendlyarm,nanopi-r1.txt ->
 brcmfmac43430-sdio.AP6212.txt
 Link: brcm/brcmfmac43430-sdio.starfive,visionfive-v1.txt ->
 brcmfmac43430-sdio.AP6212.txt
 Link: brcm/brcmfmac43430-sdio.beagle,beaglev-starlight-jh7100-a1.txt ->

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brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.beagle,beaglev-starlight-jh7100-r0.txt ->
brcmfmac43430-sdio.AP6212.txt
File: "brcm/brcmfmac43430-sdio.Hampoo-D2D3_Vi8A1.txt"
File: "brcm/brcmfmac43430-sdio.MUR1DX.txt"
File: "brcm/brcmfmac43430-sdio.raspberrypi,3-model-b.txt"
Link: brcm/brcmfmac43430-sdio.raspberrypi,model-zero-w.txt ->
brcmfmac43430-sdio.raspberrypi,3-model-b.txt
Link: brcm/brcmfmac43430-sdio.raspberrypi,model-zero-2-w.txt ->
brcmfmac43430-sdio.raspberrypi,3-model-b.txt
File: "brcm/brcmfmac43455-sdio.acepc-t8.txt"
File: "brcm/brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt"
Link: brcm/brcmfmac43455-sdio.raspberrypi,3-model-a-plus.txt ->
brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt
File: "brcm/brcmfmac43455-sdio.raspberrypi,4-model-b.txt"
Link: brcm/brcmfmac43455-sdio.Raspberry\ Pi\ Foundation-Raspberry\ Pi\ 4\
Model\ B.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt
Link: brcm/brcmfmac43455-sdio.Raspberry\ Pi\ Foundation-Raspberry\ Pi\ Compute\
Module\ 4.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt
File: "brcm/brcmfmac43455-sdio.MINIX-NEO Z83-4.txt"
File: "brcm/brcmfmac4356-pcie.gpd-win-pocket.txt"
File: "brcm/brcmfmac4356-pcie.Intel Corporation-CHERRYVIEW D1 PLATFORM.txt"
File: "brcm/brcmfmac4356-pcie.Xiaomi Inc-Mipad2.txt"
File: brcm/brcmfmac4356-sdio.AP6356S.txt
Link: brcm/brcmfmac4356-sdio.firefly,firefly-rk3399.txt ->
brcmfmac4356-sdio.AP6356S.txt
Link: brcm/brcmfmac4356-sdio.khadas,vim2.txt -> brcmfmac4356-sdio.AP6356S.txt
Link: brcm/brcmfmac4356-sdio.vamrs,rock960.txt -> brcmfmac4356-sdio.AP6356S.txt
File: brcm/brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.beagle,am5729-beagleboneai.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,pinebook-pro.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,pinephone-pro.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,quartz64-b.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt

```

Licence: GPLv2. See GPL-2 for details.

Driver: ti-vpe - Texas Instruments V4L2 driver for Video Processing Engine

File: ti/vpdma-1b8.bin

Licence: Redistributable. See LICENCE.ti-tspa for details.

Driver: wl1251 - Texas Instruments 802.11 WLAN driver for WiLink4 chips

File: ti-connectivity/wl1251-fw.bin
Version: 4.0.4.3.7

File: ti-connectivity/wl1251-nvs.bin

Licence: Redistributable. See LICENCE.wl1251 for details.

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl12xx - Texas Instruments 802.11 WLAN driver for WiLink6/7 chips

File: ti-connectivity/wl1271-fw.bin
Version: 6.1.0.50.350 (STA-only)
File: ti-connectivity/wl1271-fw-2.bin
Version: 6.1.5.50.74 (STA-only)
File: ti-connectivity/wl1271-fw-ap.bin
Version: 6.2.1.0.54 (AP-only)
File: ti-connectivity/wl127x-fw-3.bin
Version: 6.3.0.0.77
File: ti-connectivity/wl127x-fw-plt-3.bin
Version: 6.3.0.0.77 (PLT-only)
File: ti-connectivity/wl127x-fw-4-sr.bin
Version: 6.3.5.0.98 (Single-role)
File: ti-connectivity/wl127x-fw-4-mr.bin
Version: 6.5.2.0.15 (Multi-role)
File: ti-connectivity/wl127x-fw-4-plt.bin
Version: 6.3.5.0.98 (PLT-only)
File: ti-connectivity/wl127x-fw-5-sr.bin
Version: 6.3.10.0.142 (Single-role)
File: ti-connectivity/wl127x-fw-5-mr.bin
Version: 6.5.7.0.50 (Multi-role)
File: ti-connectivity/wl127x-fw-5-plt.bin
Version: 6.3.10.0.142 (PLT-only)

File: ti-connectivity/wl128x-fw.bin
Version: 7.1.5.50.74 (STA-only)
File: ti-connectivity/wl128x-fw-ap.bin
Version: 7.2.1.0.54 (AP-only)
File: ti-connectivity/wl128x-fw-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-plt-3.bin

Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-4-sr.bin
Version: 7.3.5.0.98 (Single-role)
File: ti-connectivity/wl128x-fw-4-mr.bin
Version: 7.5.2.0.15 (Multi-role)
File: ti-connectivity/wl128x-fw-4-plt.bin
Version: 7.3.5.0.98 (PLT)
File: ti-connectivity/wl128x-fw-5-sr.bin
Version: 7.3.10.0.142 (Single-role)
File: ti-connectivity/wl128x-fw-5-mr.bin
Version: 7.5.7.0.50 (Multi-role)
File: ti-connectivity/wl128x-fw-5-plt.bin
Version: 7.3.10.2.142 (PLT-only)

File: ti-connectivity/wl127x-nvs.bin
File: ti-connectivity/wl128x-nvs.bin
Link: ti-connectivity/wl12xx-nvs.bin -> wl127x-nvs.bin
Link: ti-connectivity/wl1271-nvs.bin -> wl127x-nvs.bin

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The NVS file includes two parts:

- radio calibration
- HW configuration parameters (aka. INI values)

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results. You can find more information about NVS generation for your device here:

<http://wireless.kernel.org/en/users/Drivers/wl12xx/calibrator>

If you're using a wl127x based device, use a symbolic link called wl1271-nvs.bin that links to the wl127x-nvs.bin file. If you are using wl128x, link to wl128x-nvs.bin instead.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl18xx - Texas Instruments 802.11 WLAN driver for WiLink8 chips

File: ti-connectivity/wl18xx-fw.bin
Version: 8.2.0.0.100
File: ti-connectivity/wl18xx-fw-2.bin
Version: 8.5.0.0.55
File: ti-connectivity/wl18xx-fw-3.bin
Version: 8.8.0.0.13

File: ti-connectivity/wl18xx-fw-4.bin
Version: 8.9.0.0.79

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl18xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: TI_ST - Texas Instruments bluetooth driver

File: ti-connectivity/TIInit_6.2.31.bts
Version: 2.44 (TI_P31.123)
File: ti-connectivity/TIInit_6.6.15.bts
Version: 2.14 (TI_P6_15.93)
File: ti-connectivity/TIInit_7.2.31.bts

Licence: Redistributable. See LICENCE.ti-connectivity for details.

TIInit_7.2.31.bts version 7.2.31

In order to use that file copy it to /lib/firmware/ti-connectivity.

Driver: tlg2300 - Telgent 2300 V4L/DVB driver.

File: tlg2300_firmware.bin

Licence: Redistributable.

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Driver: r8712u - Realtek 802.11n WLAN driver for RTL8712U

File: rtlwifi/rtl8712u.bin
Info: From Vendor's rtl8712_8188_8191_8192SU_usb_linux_v7_0.20100831
Reverted rtl8188C_8192C_8192D_usb_linux_v3.4.2_3727.20120404

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ce - Realtek 802.11n WLAN driver for RTL8192CE

File: rtlwifi/rtl8192cfw.bin

File: rtlwifi/rtl8192cfwU.bin

File: rtlwifi/rtl8192cfwU_B.bin

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192cu - Realtek 802.11n WLAN driver for RTL8192CU

File: rtlwifi/rtl8192cufw.bin

File: rtlwifi/rtl8192cufw_A.bin

File: rtlwifi/rtl8192cufw_B.bin

File: rtlwifi/rtl8192cufw_TMSC.bin

Info: From Vendor's rtl8188C_8192C_usb_linux_v4.0.1_6911.20130308 driver

All files extracted from driver/hal/rtl8192c/usb/Hal8192CUHWImg.c

Relevant variables (CONFIG_BT_COEXISTENCE not set):

- rtlwifi/rtl8192cufw_A.bin: Rtl8192CUFwUMCACutImgArray

- rtlwifi/rtl8192cufw_B.bin: Rtl8192CUFwUMCBCutImgArray

- rtlwifi/rtl8192cufw_TMSC.bin: Rtl8192CUFwTSMCImpArray

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192se - Realtek 802.11n WLAN driver for RTL8192SE

Info: updated from rtl_92ce_92se_92de_linux_mac80211_0004.0816.2011 driver version

File: rtlwifi/rtl8192sefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192de - Realtek 802.11n WLAN driver for RTL8192DE

Info: Updated from Realtek version

rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012

File: rtlwifi/rtl8192defw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723e - Realtek 802.11n WLAN driver for RTL8723E

Info: Taken from Realtek version
rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8723fw.bin
File: rtlwifi/rtl8723fw_B.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723be - Realtek 802.11n WLAN driver for RTL8723BE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8723befw.bin
Info: Update to version 36 - Sent by Realtek
File: rtlwifi/rtl8723befw_36.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723de - Realtek 802.11ac WLAN driver for RTL8723DE

Info: Supplied by Vendor at https://github.com/pkshih/rtlwifi_rtl8723de
File: rtlwifi/rtl8723defw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8188ee - Realtek 802.11n WLAN driver for RTL8188EE

Info: Taken from Realtek version
rtl_92ce_92se_92de_8723ae_88ee_linux_mac80211_0010.0109.2013
File: rtlwifi/rtl8188efw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8188eu - Realtek 802.11n WLAN driver for RTL8188EU

Info: Taken from Realtek version RTL8188EUS_linux_v4.1.4_6773.20130222
File: rtlwifi/rtl8188eufw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8812AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8812aefw.bin
File: rtlwifi/rtl8812aefw_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8821aefw.bin
File: rtlwifi/rtl8821aefw_wowlan.bin
Info: Update to version 29 - Sent by Realtek
File: rtlwifi/rtl8821aefw_29.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8822be - Realtek 802.11n WLAN driver for RTL8822BE

Info: Sent to Larry Finger by Realtek engineer Ping-Ke Shih <pkshih@realtek.com>
File: rtlwifi/rtl8822befw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtw88 - Realtek 802.11ac WLAN driver for RTL8822BE and RTL8822CE

Info: Sent to Larry Finger by Realtek engineer Yan-Hsuan Chuang
<yhchuang@realtek.com>
File: rtw88/rtw8822b_fw.bin
File: rtw88/rtw8822c_fw.bin
File: rtw88/rtw8822c_wow_fw.bin
File: rtw88/README
File: rtw88/rtw8723d_fw.bin
File: rtw88/rtw8821c_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

These firmware should be put under /lib/firmware/rtw88/
And note that the rtw88 driver is able to support wake-on-wireless LAN
for RTL8822C devices, after kernel v5.6+. So, make sure the firmware
rtw88/rtw8822c_wow_fw.bin is also packed, otherwise the firmware load

fail could be a problem.

Although RTL8723D devices are 802.11n device, they are also supported by rtw88 because the hardware arch is similar.

Driver: rtw89 - Realtek 802.11ax WLAN driver for RTL8852A/RTL8852B/RTL8852C

File: rtw89/rtw8852a_fw.bin
File: rtw89/rtw8852b_fw.bin
File: rtw89/rtw8852b_fw-1.bin
File: rtw89/rtw8852c_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ee - Realtek 802.11n WLAN driver for RTL8192EE

Info: Initial version taken from Realtek version
rtl_92ce_92se_92de_8723ae_88ee_8723be_92ee_linux_mac80211_0017.1224.2013
Updated Jan. 14, 2015 with file added by Realtek to
http://github.com/lwfinger/rtlwifi_new.git.
Same firmware rtl8192eu_nic.bin so just link them
Link: rtlwifi/rtl8192eefw.bin -> rtl8192eu_nic.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723bs - Realtek 802.11n WLAN driver for RTL8723BS

Info: Firmware files extracted from data statements in Realtek driver
v4.3.5.5_12290.20140916_BTCOEX20140507-4E40.
File: rtlwifi/rtl8723bs_bt.bin
Link: rtlwifi/rtl8723bs_nic.bin -> rtl8723bu_nic.bin
Link: rtlwifi/rtl8723bs_ap_wowlan.bin -> rtl8723bu_ap_wowlan.bin
Link: rtlwifi/rtl8723bs_wowlan.bin -> rtl8723bu_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8xxxu - Realtek 802.11n WLAN driver for RTL8XXX USB devices

Info: rtl8723au taken from Realtek driver
rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin

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File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin

Info: rtl8723bu taken from Realtek driver
      rtl8723BU_WiFi_linux_v4.3.16_14189.20150519_BTCOEX20150119-5844
      Firmware is embedded in the driver as data statements. This info
      has been extracted into a binary file.
File: rtlwifi/rtl8723bu_nic.bin
File: rtlwifi/rtl8723bu_wowlan.bin
File: rtlwifi/rtl8723bu_ap_wowlan.bin

Info: rtl8192eu taken from Realtek driver
      rtl8192EU_WiFi_linux_v5.11.2.1-18-g8e7df912b.20210527_COEX20171113-0047
      Firmware is embedded in the driver as data statements. This info
      has been extracted into a binary file.
File: rtlwifi/rtl8192eu_nic.bin
Version: 35.7
File: rtlwifi/rtl8192eu_wowlan.bin
Version: 35.7
File: rtlwifi/rtl8192eu_ap_wowlan.bin
Version: 18.0

Info: rtl8188fu taken from Realtek driver
      RTL8188FU_Linux_v4.3.23.6_20964.20170110
      Firmware was embedded in the driver as data statements. This info
      has been extracted into a binary file.
File: rtlwifi/rtl8188fufw.bin

File: rtlwifi/rtl8710bufw_SMIC.bin
Version: 16.0
File: rtlwifi/rtl8710bufw_UMC.bin
Version: 16.0

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

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Driver: r8169 - RealTek 8169/8168/8101 ethernet driver.

File: rtl_nic/rtl8168d-1.fw
File: rtl_nic/rtl8168d-2.fw
File: rtl_nic/rtl8105e-1.fw
File: rtl_nic/rtl8168e-1.fw
File: rtl_nic/rtl8168e-2.fw

File: rtl_nic/rtl8168e-3.fw
Version: 0.0.4

File: rtl_nic/rtl8168f-1.fw
Version: 0.0.5
```

File: rtl_nic/rtl8168f-2.fw
Version: 0.0.4

File: rtl_nic/rtl8411-1.fw
Version: 0.0.3

File: rtl_nic/rtl8411-2.fw
Version: 0.0.1

File: rtl_nic/rtl8402-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-1.fw
Version: 0.0.3

File: rtl_nic/rtl8168g-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-3.fw
Version: 0.0.1

File: rtl_nic/rtl8168h-1.fw
Version: 0.0.2

File: rtl_nic/rtl8168h-2.fw
Version: 0.0.2

File: rtl_nic/rtl8168fp-3.fw
Version: 0.0.1

File: rtl_nic/rtl8107e-1.fw
Version: 0.0.2

File: rtl_nic/rtl8107e-2.fw
Version: 0.0.2

File: rtl_nic/rtl8125a-3.fw
Version: 0.0.1

File: rtl_nic/rtl8125b-1.fw
Version: 0.0.2

File: rtl_nic/rtl8125b-2.fw

Version: 0.0.2

Licence:

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*
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* notice is accompanying it.

Driver: r8152 - Realtek RTL8152/RTL8153 Based USB Ethernet Adapters

File: rtl_nic/rtl8153a-2.fw
File: rtl_nic/rtl8153a-3.fw
File: rtl_nic/rtl8153a-4.fw
File: rtl_nic/rtl8153b-2.fw
File: rtl_nic/rtl8153c-1.fw
File: rtl_nic/rtl8156a-2.fw
File: rtl_nic/rtl8156b-2.fw

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: vt6656 - VIA VT6656 USB wireless driver

File: vntwusb.fw

Licence: Redistributable. See LICENCE.via_vt6656 for details.

Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020001.dfu
File: ar3k/ramps_0x01020001_26.dfu
File: ar3k/AthrBT_0x01020200.dfu
File: ar3k/ramps_0x01020200_26.dfu
File: ar3k/ramps_0x01020200_40.dfu
File: ar3k/AthrBT_0x31010000.dfu
File: ar3k/ramps_0x31010000_40.dfu
File: ar3k/AthrBT_0x11020000.dfu
File: ar3k/ramps_0x11020000_40.dfu
File: ar3k/ramps_0x01020201_26.dfu
File: ar3k/ramps_0x01020201_40.dfu
File: ar3k/AthrBT_0x41020000.dfu
File: ar3k/ramps_0x41020000_40.dfu
File: ar3k/AthrBT_0x11020100.dfu
File: ar3k/ramps_0x11020100_40.dfu

File: ar3k/AthrBT_0x31010100.dfu
File: ar3k/ramps_0x31010100_40.dfu

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020201.dfu
File: ar3k/1020201coex/ramps_0x01020201_26_HighPriority.dfu

Licence: Redistributable. See LICENSE.QualcommAtheros_ar3k for details

Driver:Atheros AR300x UART HCI Bluetooth Chip driver

File: ar3k/1020201/PS_ASIC.pst
File: ar3k/1020201/RamPatch.txt
File: ar3k/1020200/ar3kbdaddr.pst
File: ar3k/1020200/PS_ASIC.pst
File: ar3k/1020200/RamPatch.txt
File: ar3k/30101/ar3kbdaddr.pst
File: ar3k/30101/PS_ASIC.pst
File: ar3k/30101/RamPatch.txt
File: ar3k/30000/ar3kbdaddr.pst
File: ar3k/30000/PS_ASIC.pst
File: ar3k/30000/RamPatch.txt

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: ath6kl - Atheros support for AR6003

File: ath6k/AR6004/hw1.3/fw-3.bin
File: ath6k/AR6004/hw1.3/bdata.bin
File: ath6k/AR6004/hw1.2/fw-2.bin
File: ath6k/AR6004/hw1.2/bdata.bin
File: ath6k/AR6003/hw1.0/otp.bin.z77
File: ath6k/AR6003/hw1.0/bdata.SD31.bin
File: ath6k/AR6003/hw1.0/bdata.SD32.bin
File: ath6k/AR6003/hw1.0/data.patch.bin
File: ath6k/AR6003/hw1.0/bdata.WB31.bin
File: ath6k/AR6003/hw1.0/athwlan.bin.z77
File: ath6k/AR6003/hw2.1.1/fw-2.bin
File: ath6k/AR6003/hw2.1.1/fw-3.bin
File: ath6k/AR6003/hw2.1.1/otp.bin
File: ath6k/AR6003/hw2.1.1/athwlan.bin

File: ath6k/AR6003/hw2.1.1/endpointping.bin
 File: ath6k/AR6003/hw2.1.1/bdata.SD31.bin
 File: ath6k/AR6003/hw2.1.1/bdata.SD32.bin
 File: ath6k/AR6003/hw2.1.1/data.patch.bin
 File: ath6k/AR6003/hw2.1.1/bdata.WB31.bin
 File: ath6k/AR6003/hw2.0/otp.bin.z77
 File: ath6k/AR6003/hw2.0/bdata.SD31.bin
 File: ath6k/AR6003/hw2.0/bdata.SD32.bin
 File: ath6k/AR6003/hw2.0/data.patch.bin
 File: ath6k/AR6003/hw2.0/bdata.WB31.bin
 File: ath6k/AR6003/hw2.0/athwlan.bin.z77
 File: ath6k/AR6002/eeprom.data
 File: ath6k/AR6002/eeprom.bin
 File: ath6k/AR6002/athwlan.bin.z77
 File: ath6k/AR6002/data.patch.hw2_0.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

 Driver: ath10k - Qualcomm Atheros support for QCA988x family of chips

File: ath10k/QCA988X/hw2.0/board.bin
 File: ath10k/QCA988X/hw2.0/firmware-4.bin
 Version: 10.2.4.45
 File: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-4.txt
 File: ath10k/QCA988X/hw2.0/firmware-5.bin
 Version: 10.2.4-1.0-00047
 File: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-5.txt
 File: ath10k/QCA6174/hw2.1/board.bin
 File: ath10k/QCA6174/hw2.1/board-2.bin
 File: ath10k/QCA6174/hw2.1/firmware-5.bin
 Version: SW_RM.1.1.1-00157-QCARMSWPZ-1
 File: ath10k/QCA6174/hw2.1/notice_ath10k_firmware-5.txt
 File: ath10k/QCA6174/hw3.0/board.bin
 File: ath10k/QCA6174/hw3.0/board-2.bin
 File: ath10k/QCA6174/hw3.0/firmware-4.bin
 Version: WLAN.RM.2.0-00180-QCARMSWPZ-1
 File: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-4.txt
 File: ath10k/QCA6174/hw3.0/firmware-6.bin
 Version: WLAN.RM.4.4.1-00288-QCARMSWPZ-1
 File: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-6.txt
 File: ath10k/QCA6174/hw3.0/firmware-sdio-6.bin
 Version: WLAN.RMH.4.4.1-00174
 File: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-sdio-6.txt
 File: ath10k/QCA9377/hw1.0/board.bin
 File: ath10k/QCA9377/hw1.0/board-2.bin
 File: ath10k/QCA9377/hw1.0/firmware-5.bin
 Version: WLAN.TF.1.0-00002-QCATFSWPZ-5
 File: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-5.txt

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File: ath10k/QCA9377/hw1.0/firmware-sdio-5.bin
Version: WLAN.TF.1.1.1-00061-QCATFSWPZ-1
File: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-sdio-5.txt
File: ath10k/QCA99X0/hw2.0/board-2.bin
File: ath10k/QCA99X0/hw2.0/firmware-5.bin
Version: 10.4.1.00030-1
File: ath10k/QCA99X0/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA4019/hw1.0/board-2.bin
File: ath10k/QCA4019/hw1.0/firmware-5.bin
Version: 10.4-3.6-00140
File: ath10k/QCA4019/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9887/hw1.0/board.bin
File: ath10k/QCA9887/hw1.0/firmware-5.bin
Version: 10.2.4-1.0-00047
File: ath10k/QCA9887/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9888/hw2.0/board-2.bin
File: ath10k/QCA9888/hw2.0/firmware-5.bin
Version: 10.4-3.9.0.2-00157
File: ath10k/QCA9888/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9984/hw1.0/board-2.bin
File: ath10k/QCA9984/hw1.0/firmware-5.bin
Version: 10.4-3.9.0.2-00157
File: ath10k/QCA9984/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9377/hw1.0/firmware-6.bin
Version: WLAN.TF.2.1-00021-QCARMSWP-1
File: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-6.txt
File: ath10k/WCN3990/hw1.0/board-2.bin
File: ath10k/WCN3990/hw1.0/firmware-5.bin
File: ath10k/WCN3990/hw1.0/wlanmdsp.mbn
Link: qcom/sdm845/wlanmdsp.mbn -> ../../ath10k/WCN3990/hw1.0/wlanmdsp.mbn
Version: WLAN.HL.2.0-01387-QCAHLSWMTPLZ-1
File: ath10k/WCN3990/hw1.0/notice.txt_wlanmdsp

```

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Driver: ath11k - Qualcomm Technologies 802.11ax chipset support

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File: ath11k/IPQ6018/hw1.0/board-2.bin
File: ath11k/IPQ6018/hw1.0/m3_fw.b00
File: ath11k/IPQ6018/hw1.0/m3_fw.b01
File: ath11k/IPQ6018/hw1.0/m3_fw.b02
File: ath11k/IPQ6018/hw1.0/m3_fw.flist
File: ath11k/IPQ6018/hw1.0/m3_fw.mdt
File: ath11k/IPQ6018/hw1.0/q6_fw.b00
File: ath11k/IPQ6018/hw1.0/q6_fw.b01
File: ath11k/IPQ6018/hw1.0/q6_fw.b02
File: ath11k/IPQ6018/hw1.0/q6_fw.b03
File: ath11k/IPQ6018/hw1.0/q6_fw.b04

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File: ath11k/IPQ6018/hw1.0/q6_fw.b05
File: ath11k/IPQ6018/hw1.0/q6_fw.b07
File: ath11k/IPQ6018/hw1.0/q6_fw.b08
File: ath11k/IPQ6018/hw1.0/q6_fw.flist
File: ath11k/IPQ6018/hw1.0/q6_fw.mdt
Version: WLAN.HK.2.5.0.1-01208-QCAHKSUPL_SILICONZ-1
File: ath11k/IPQ6018/hw1.0/Notice.txt
File: ath11k/IPQ8074/hw2.0/board-2.bin
File: ath11k/IPQ8074/hw2.0/m3_fw.b00
File: ath11k/IPQ8074/hw2.0/m3_fw.b01
File: ath11k/IPQ8074/hw2.0/m3_fw.b02
File: ath11k/IPQ8074/hw2.0/m3_fw.flist
File: ath11k/IPQ8074/hw2.0/m3_fw.mdt
File: ath11k/IPQ8074/hw2.0/q6_fw.b00
File: ath11k/IPQ8074/hw2.0/q6_fw.b01
File: ath11k/IPQ8074/hw2.0/q6_fw.b02
File: ath11k/IPQ8074/hw2.0/q6_fw.b03
File: ath11k/IPQ8074/hw2.0/q6_fw.b04
File: ath11k/IPQ8074/hw2.0/q6_fw.b05
File: ath11k/IPQ8074/hw2.0/q6_fw.b07
File: ath11k/IPQ8074/hw2.0/q6_fw.b08
File: ath11k/IPQ8074/hw2.0/q6_fw.flist
File: ath11k/IPQ8074/hw2.0/q6_fw.mdt
Version: WLAN.HK.2.5.0.1-01208-QCAHKSUPL_SILICONZ-1
File: ath11k/IPQ8074/hw2.0/Notice.txt
File: ath11k/QCA6390/hw2.0/board-2.bin
File: ath11k/QCA6390/hw2.0/amss.bin
File: ath11k/QCA6390/hw2.0/m3.bin
Version: WLAN.HST.1.0.1-05266-QCAHSTUPL_V2_TO_X86-1
File: ath11k/QCA6390/hw2.0/Notice.txt
File: ath11k/WCN6855/hw2.0/regdb.bin
File: ath11k/WCN6855/hw2.0/board-2.bin
File: ath11k/WCN6855/hw2.0/amss.bin
File: ath11k/WCN6855/hw2.0/m3.bin
Version: WLAN.HSP.1.1-03125-QCAHSPUPL_V1_V2_SILICONZ_LITE-3.6510.23
File: ath11k/WCN6855/hw2.0/Notice.txt
Link: ath11k/WCN6855/hw2.1/regdb.bin -> ../hw2.0/regdb.bin
Link: ath11k/WCN6855/hw2.1/board-2.bin -> ../hw2.0/board-2.bin
Link: ath11k/WCN6855/hw2.1/amss.bin -> ../hw2.0/amss.bin
Link: ath11k/WCN6855/hw2.1/m3.bin -> ../hw2.0/m3.bin
File: ath11k/QCN9074/hw1.0/board-2.bin
File: ath11k/QCN9074/hw1.0/amss.bin
File: ath11k/QCN9074/hw1.0/m3.bin
Version: WLAN.HK.2.5.0.1-01208-QCAHKSUPL_SILICONZ-1
File: ath11k/QCN9074/hw1.0/Notice.txt
File: ath11k/WCN6750/hw1.0/board-2.bin
File: ath11k/WCN6750/hw1.0/wpss.b00
File: ath11k/WCN6750/hw1.0/wpss.b01
File: ath11k/WCN6750/hw1.0/wpss.b02
File: ath11k/WCN6750/hw1.0/wpss.b03

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File: ath11k/WCN6750/hw1.0/wpss.b04
File: ath11k/WCN6750/hw1.0/wpss.b05
File: ath11k/WCN6750/hw1.0/wpss.b06
File: ath11k/WCN6750/hw1.0/wpss.b07
File: ath11k/WCN6750/hw1.0/wpss.b08
File: ath11k/WCN6750/hw1.0/wpss.mdt
Version: WLAN.MSL.1.0.1-00887-QCAMSLSWPLZ-1
File: ath11k/WCN6750/hw1.0/Notice.txt
File: ath11k/IPQ5018/hw1.0/board-2.bin
File: ath11k/IPQ5018/hw1.0/m3_fw.b00
File: ath11k/IPQ5018/hw1.0/m3_fw.b01
File: ath11k/IPQ5018/hw1.0/m3_fw.b02
File: ath11k/IPQ5018/hw1.0/m3_fw.flist
File: ath11k/IPQ5018/hw1.0/m3_fw.mdt
File: ath11k/IPQ5018/hw1.0/q6_fw.b00
File: ath11k/IPQ5018/hw1.0/q6_fw.b01
File: ath11k/IPQ5018/hw1.0/q6_fw.b02
File: ath11k/IPQ5018/hw1.0/q6_fw.b03
File: ath11k/IPQ5018/hw1.0/q6_fw.b04
File: ath11k/IPQ5018/hw1.0/q6_fw.b05
File: ath11k/IPQ5018/hw1.0/q6_fw.b07
File: ath11k/IPQ5018/hw1.0/q6_fw.b08
File: ath11k/IPQ5018/hw1.0/q6_fw.b09
File: ath11k/IPQ5018/hw1.0/q6_fw.b10
File: ath11k/IPQ5018/hw1.0/q6_fw.b11
File: ath11k/IPQ5018/hw1.0/q6_fw.b13
File: ath11k/IPQ5018/hw1.0/q6_fw.b14
File: ath11k/IPQ5018/hw1.0/q6_fw.flist
File: ath11k/IPQ5018/hw1.0/q6_fw.mdt
Version: WLAN.HK.2.6.0.1-00861-QCAHKSWPL_SILICONZ-1
File: ath11k/IPQ5018/hw1.0/Notice.txt

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge_eth_z8e.dat
File: myri10ge_ethp_z8e.dat
File: myri10ge_rss_eth_z8e.dat
File: myri10ge_rss_ethp_z8e.dat
File: myri10ge_eth_big_z8e.dat
File: myri10ge_ethp_big_z8e.dat
File: myri10ge_rss_eth_big_z8e.dat
File: myri10ge_rss_ethp_big_z8e.dat
Version: 1.4.57

License: Redistributable. See LICENSE.myri10ge_firmware for details.

Driver: ath6kl - Atheros support for AR6003 WiFi-Bluetooth combo module

File: ath6k/AR6003.1/hw2.1.1/athwlan.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003.1/hw2.1.1/data.patch.bin
File: ath6k/AR6003.1/hw2.1.1/endpointping.bin
File: ath6k/AR6003.1/hw2.1.1/otp.bin

License: Redistributable. See LICENCE.atheros_firmware for details

Driver: ath6kl - Atheros support for AR3001 WiFi-Bluetooth combo module

File: ar3k/30101coex/ar3kbdaddr.pst
File: ar3k/30101coex/PS_ASIC_aclLowPri.pst
File: ar3k/30101coex/PS_ASIC_aclHighPri.pst
File: ar3k/30101coex/PS_ASIC.pst
File: ar3k/30101coex/RamPatch.txt

License: Redistributable. See LICENCE.atheros_firmware for details

Driver: drxk - Micronas DRX-K demodulator driver

File: dvb-usb-terratec-h5-drxk.fw

Licence: Redistributable.

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Driver: ene-ub6250 -- ENE UB6250 SD card reader driver

File: ene-ub6250/sd_init1.bin
File: ene-ub6250/sd_init2.bin
File: ene-ub6250/sd_rdwr.bin

File: ene-ub6250/ms_init.bin
File: ene-ub6250/msp_rdwr.bin
File: ene-ub6250/ms_rdwr.bin

Licence: Redistributable. See LICENCE.ene_firmware for details.

Driver: isci -- Intel C600 SAS controller driver

File: isci/isci_firmware.bin
Source: isci/

Licence: GPLv2. See GPL-2 for details.

Driver: ar5523 -- Atheros AR5523 based USB Wifi dongles

File: ar5523.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: s5p-mfc - Samsung MFC video encoder/decoder driver

File: s5p-mfc.fw
File: s5p-mfc-v6.fw
File: s5p-mfc-v6-v2.fw
File: s5p-mfc-v7.fw
File: s5p-mfc-v8.fw

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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw
Version: 1.9.6

Source: carl9170fw/

Downloaded from <http://linuxwireless.org/en/users/Drivers/carl9170>

Licence: GPLv2. Some build scripts use the New BSD (3-clause) licence.. See GPL-2 for details.

Driver: snd-hda-codec-ca0132 - Creative Sound Core3D codec

File: ctefx.bin

File: ctspeq.bin

Licence: Redistributable. See LICENCE.ca0132 for details

Found also in alsa-firmware package.

Driver: btusb - Bluetooth USB driver

File: intel/ibt-hw-37.7.bseq

Version: 1316.02.00

File: intel/ibt-hw-37.7.10-fw-1.80.2.3.d.bseq

Version: BT_WilkinsPeak_B3_REL_87_0001

File: intel/ibt-hw-37.7.10-fw-1.0.2.3.d.bseq

Version: BT_WilkinsPeak_B3_REL_87_0001

File: intel/ibt-hw-37.7.10-fw-1.80.1.2.d.d.bseq

Version: BT_WilkinsPeak_B5_REL_42_0001

File: intel/ibt-hw-37.7.10-fw-1.0.1.2.d.d.bseq

Version: BT_WilkinsPeak_B5_REL_42_0001

File: intel/ibt-hw-37.8.bseq

Version: 1339_02.00

File: intel/ibt-hw-37.8.10-fw-1.10.2.27.d.bseq

Version: BT_StonePeak_C0_REL_59_0001

File: intel/ibt-hw-37.8.10-fw-1.10.3.11.e.bseq

Version: BT_StonePeak_D0_REL_50_0002

File: intel/ibt-hw-37.8.10-fw-22.50.19.14.f.bseq

Version: BT_StonePeak_D1_REL_67_1278

File: intel/ibt-11-5.ddc

Version: LnP/SfP_REL1294

File: intel/ibt-11-5.sfi

Version: BT_LightningPeak_REL0487

File: intel/ibt-12-16.ddc

Version: BT_WindStormPeak_REL1299

File: intel/ibt-12-16.sfi

Version: BT_WindStormPeak_REL1299

File: intel/ibt-17-16-1.sfi

Version: BT_JeffersonPeak_B0_B0_REL20332

File: intel/ibt-17-16-1.ddc
Version: BT_JeffersonPeak_B0_B0_REL20332
File: intel/ibt-17-2.sfi
Version: BT_JeffersonPeak_B0_B0_REL20332
File: intel/ibt-17-2.ddc
Version: BT_JeffersonPeak_B0_B0_REL20332
File: intel/ibt-17-0-1.sfi
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-0-1.ddc
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-1.sfi
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-1.ddc
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-18-16-1.sfi
Version: BT_ThunderPeak_B0_B0_REL20182
File: intel/ibt-18-16-1.ddc
Version: BT_ThunderPeak_B0_B0_REL20182
File: intel/ibt-18-2.sfi
Version: BT_ThunderPeak_B0_B0_REL20182
File: intel/ibt-18-2.ddc
Version: BT_ThunderPeak_B0_B0_REL20182
File: intel/ibt-18-0-1.sfi
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-0-1.ddc
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-1.sfi
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-1.ddc
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-20-0-3.sfi
Version: BT_CyclonePeak_A0_REL53263
File: intel/ibt-20-0-3.ddc
Version: BT_CyclonePeak_A0_REL53263
File: intel/ibt-20-1-3.sfi
Version: BT_CyclonePeak_A0_REL53263
File: intel/ibt-20-1-3.ddc
Version: BT_CyclonePeak_A0_REL53263
File: intel/ibt-20-1-4.sfi
Version: BT_CyclonePeak_A0_REL53263
File: intel/ibt-20-1-4.ddc
Version: BT_CyclonePeak_A0_REL53263
File: intel/ibt-19-0-0.sfi
Version: BT_Quasar_REL53263
File: intel/ibt-19-0-0.ddc
Version: BT_Quasar_REL53263
File: intel/ibt-19-0-1.sfi
Version: BT_Quasar_REL53263
File: intel/ibt-19-0-1.ddc
Version: BT_Quasar_REL53263

File:intel/ibt-19-0-3.sfi
Version: BT_Quasar_REL53263
File:intel/ibt-19-0-3.ddc
Version: BT_Quasar_REL53263
File:intel/ibt-19-0-4.sfi
Version: BT_HarrisonPeak_REL53263
File:intel/ibt-19-0-4.ddc
Version: BT_HarrisonPeak_REL53263
File:intel/ibt-19-16-4.sfi
Version: BT_HarrisonPeak_REL53263
File:intel/ibt-19-16-4.ddc
Version: BT_HarrisonPeak_REL53263
File:intel/ibt-19-32-1.sfi
Version: BT_HarrisonPeak_REL53263
File:intel/ibt-19-32-1.ddc
Version: BT_HarrisonPeak_REL53263
File:intel/ibt-19-32-0.sfi
Version: BT_HarrisonPeak_REL53263
File:intel/ibt-19-32-0.ddc
Version: BT_HarrisonPeak_REL53263
File:intel/ibt-19-32-4.sfi
Version: BT_HarrisonPeak_REL53263
File:intel/ibt-19-32-4.ddc
Version: BT_HarrisonPeak_REL53263
File:intel/ibt-19-240-1.sfi
Version: BT_HarrisonPeak_REL53263
File:intel/ibt-19-240-1.ddc
Version: BT_HarrisonPeak_REL53263
File:intel/ibt-19-240-4.sfi
Version: BT_HarrisonPeak_REL53263
File:intel/ibt-19-240-4.ddc
Version: BT_HarrisonPeak_REL53263
File:intel/ibt-0041-0041.sfi
Version: BT_TyphoonPeak_REL59564
File:intel/ibt-0041-0041.ddc
Version: BT_TyphoonPeak_REL59564
File:intel/ibt-0040-0041.sfi
Version: BT_Solar_GfP2_REL59564
File:intel/ibt-0040-0041.ddc
Version: BT_Solar_GfP2_REL59564
File:intel/ibt-1040-0041.sfi
Version: BT_SolarF_GfP2_REL59564
File:intel/ibt-1040-0041.ddc
Version: BT_SolarF_GfP2_REL59564

File:intel/ibt-0040-1020.sfi
Version: BT_Solar_JfP1_REL59564
File:intel/ibt-0040-1020.ddc
Version: BT_Solar_JfP1_REL59564
File:intel/ibt-1040-1020.sfi

Version: BT_SolarF_JfP1_REL59564
File:intel/ibt-1040-1020.ddc
Version: BT_SolarF_JfP1_REL59564

File:intel/ibt-0040-2120.sfi
Version: BT_Solar_JfP2_REL52159
File:intel/ibt-0040-2120.ddc
Version: BT_Solar_JfP2_REL52159
File:intel/ibt-1040-2120.sfi
Version: BT_SolarF_JfP2_REL59564
File:intel/ibt-1040-2120.ddc
Version: BT_SolarF_JfP2_REL59564

File:intel/ibt-0040-4150.sfi
Version: BT_Solar_JnP2_REL59564
File:intel/ibt-0040-4150.ddc
Version: BT_Solar_JnP2_REL59564
File:intel/ibt-1040-4150.sfi
Version: BT_SolarF_JnP2_REL59564
File:intel/ibt-1040-4150.ddc
Version: BT_SolarF_JnP2_REL59564

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File: rtl_bt/rtl8192ee_fw.bin
File: rtl_bt/rtl8192eu_fw.bin
File: rtl_bt/rtl8723a_fw.bin
File: rtl_bt/rtl8723b_fw.bin
File: rtl_bt/rtl8723bs_fw.bin
File: rtl_bt/rtl8723bs_config-OBDA8723.bin
Link: rtl_bt/rtl8723bs_config-OBDA0623.bin -> rtl8723bs_config-OBDA8723.bin
File: rtl_bt/rtl8761a_fw.bin
File: rtl_bt/rtl8761b_fw.bin
File: rtl_bt/rtl8761b_config.bin
File: rtl_bt/rtl8761bu_fw.bin
File: rtl_bt/rtl8761bu_config.bin
File: rtl_bt/rtl8812ae_fw.bin
File: rtl_bt/rtl8821a_fw.bin
Link: rtl_bt/rtl8821a_config.bin -> rtl8821c_config.bin
File: rtl_bt/rtl8822b_fw.bin
File: rtl_bt/rtl8822b_config.bin
File: rtl_bt/rtl8723d_fw.bin
File: rtl_bt/rtl8723d_config.bin
File: rtl_bt/rtl8821c_fw.bin
File: rtl_bt/rtl8821c_config.bin
File: rtl_bt/rtl8821cs_fw.bin
File: rtl_bt/rtl8821cs_config.bin
File: rtl_bt/rtl8822cu_fw.bin
File: rtl_bt/rtl8822cu_config.bin
File: rtl_bt/rtl8822cs_fw.bin

File: rtl_bt/rtl8822cs_config.bin
File: rtl_bt/rtl8852au_fw.bin
File: rtl_bt/rtl8852au_config.bin
File: rtl_bt/rtl8852bu_fw.bin
File: rtl_bt/rtl8852bu_config.bin
File: rtl_bt/rtl8852cu_fw.bin
File: rtl_bt/rtl8852cu_config.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Found in vendor driver, linux_bt_usb_2.11.20140423_8723be.rar
From https://github.com/troy-tan/driver_store
Files rtl_bt/rtl8822b_* came directly from Realtek. These files are updated on April 14, 2017.
Files rtl_bt/rtl8821c_* and rtl_bt/rtl8723d_* came directly from Realtek.
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on February 24, 2019
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on October 23, 2019
File rtl_bt/rtl8822cu_config.bin came directly from Realtek.

Found in vendor driver, 20200806_LINUX_BT_DRIVER_RTL8761B_COEX_v0202.zip
File rtl_bt/rtl8761b_fw.bin
File rtl_bt/rtl8761b_config.bin
File rtl_bt/rtl8761bu_fw.bin
File rtl_bt/rtl8761bu_config.bin

Driver: btmtk_usb - Bluetooth USB driver

File: mt7650.bin

Licence: Redistributable. See LICENCE.ralink_a_mEDIATEK_company_firmware for details

Driver: rp2 -- Control RocketPort 2 serial driver

File: rp2.fw

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Driver: go7007

File: go7007/s2250-1.fw
File: go7007/s2250-2.fw
Link: s2250.fw -> go7007/s2250-2.fw
Link: s2250_loader.fw -> go7007/s2250-1.fw

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File: go7007/go7007fw.bin
File: go7007/go7007tv.bin
File: go7007/lr192.fw
File: go7007/px-m402u.fw
File: go7007/px-tv402u.fw
File: go7007/wis-startrek.fw

Licence: Redistributable. See LICENCE.go7007 for details

Driver: ccp - Platform Security Processor (PSP) device

File: amd/amd_sev_fam17h_model0xh.sbin
Version: 2022-2-25
File: amd/amd_sev_fam17h_model13xh.sbin
Version: 2022-2-25
File: amd/amd_sev_fam19h_model0xh.sbin
Version: 2022-2-25

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Driver: microcode_amd - AMD CPU Microcode Update Driver for Linux

File: amd-ucode/microcode_amd.bin
Version: 2013-07-10
File: amd-ucode/microcode_amd_fam15h.bin

Version: 2018-05-24
File: amd-ucode/microcode_amd_fam16h.bin
Version: 2014-10-28
File: amd-ucode/microcode_amd_fam17h.bin
Version: 2022-04-08
File: amd-ucode/microcode_amd_fam19h.bin
Version: 2023-01-31
File: amd-ucode/README

License: Redistributable. See LICENSE.amd-ucode for details

Driver: mxullx0 - MOXA UPort 11x0 USB Serial hub driver

File: moxa/moxa-1110.fw
File: moxa/moxa-1130.fw
File: moxa/moxa-1131.fw
File: moxa/moxa-1150.fw
File: moxa/moxa-1151.fw

License: Redistributable. See LICENCE.moxa for details

Driver: mxuport - MOXA UPort USB Serial hub driver

File: moxa/moxa-1250.fw
File: moxa/moxa-1251.fw
File: moxa/moxa-1410.fw
File: moxa/moxa-1450.fw
File: moxa/moxa-1451.fw
File: moxa/moxa-1613.fw
File: moxa/moxa-1618.fw
File: moxa/moxa-1653.fw
File: moxa/moxa-1658.fw

License: Redistributable. See LICENCE.moxa for details

Driver: cw1200 - ST-E CW1100/CW1200 WLAN driver

File: wsm_22.bin
Version: WSM395
Licence: Redistributable. See LICENCE.cw1200 for details.

File: sdd_sagrad_1091_1098.bin

License:

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(Please note that the actual device firmware is separately licensed)

Driver: BFA/BNA - QLogic BR-series Adapter FC/FCOE drivers

File: cbfw-3.2.5.1.bin
File: ctfw-3.2.5.1.bin
File: ct2fw-3.2.5.1.bin

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Driver: qat - Intel(R) QAT crypto accelerator

File: qat_895xcc.bin
File: qat_895xcc_mmp.bin
File: qat_c3xxx.bin
File: qat_c3xxx_mmp.bin
File: qat_c62x.bin
File: qat_c62x_mmp.bin
Link: qat_mmp.bin -> qat_895xcc_mmp.bin

File: qat_4xxx.bin

File: qat_4xxx_mmp.bin

Licence: Redistributable. See LICENCE.qat_firmware for details

Driver: rsi -- Redpine Signals Inc 91x driver

File: rsi_91x.fw

File: rsi/rs9113_wlan_qspi.rps

Version: 1.6.1

File: rsi/rs9113_wlan_bt_dual_mode.rps

Version: 1.6.1

File: rsi/rs9113_ap_bt_dual_mode.rps

Version: 1.6.1

File: rsi/rs9116_wlan.rps

Version: 1.0.5b

File: rsi/rs9116_wlan_bt_classic.rps

Version: 1.0.5b

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* provided this copyright notice is accompanying it.

Driver: xhci-rcar -- Renesas R-Car Gen2/3 USB 3.0 host controller driver

File: r8a779x_usb3_v1.dlmem

File: r8a779x_usb3_v2.dlmem

File: r8a779x_usb3_v3.dlmem

Licence: Redistributable. See LICENCE.r8a779x_usb3 for details.

Driver: snd_soc_sst_acpi

File: intel/fw_sst_0f28.bin-48kHz_i2s_master

License: Redistributable. See LICENCE.fw_sst_0f28 for details

Driver: as102 - Abilis Systems Single DVB-T Receiver

File: as102_data1_st.hex

File: as102_data2_st.hex

License: Redistributable. See LICENCE.Abilis for details

Driver: it9135 -- ITEtech IT913x DVB-T USB driver

File: dvb-usb-it9135-01.fw

File: dvb-usb-it9135-02.fw

Licence: Redistributable. See LICENCE.it913x for details

Driver: snd_soc_catpt -- Intel AudioDSP driver for HSW/BDW platforms

File: intel/catpt/bdw/dsp_basefw.bin

Version: 44b81c4d5397a63108356f58f036953d9b288c4e

Link: intel/IntcSST2.bin -> catpt/bdw/dsp_basefw.bin

License: Redistributable. See LICENCE.IntcSST2 for details

Driver: snd_soc_avs -- Intel AudioDSP driver for CAVS platforms

File: intel/avs/skl/dsp_basefw.bin

File: intel/avs/skl/dsp_mod_7CAD0808-AB10-CD23-EF45-12AB34CD56EF.bin

Version: 9.21.00.4899

Link: intel/dsp_fw_release.bin -> avs/skl/dsp_basefw.bin

Link: intel/dsp_fw_kbl.bin -> avs/skl/dsp_basefw.bin

File: intel/avs/apl/dsp_basefw.bin

Version: 9.22.01.4908

Link: intel/dsp_fw_bxtn.bin -> avs/apl/dsp_basefw.bin

Link: intel/dsp_fw_glk.bin -> avs/apl/dsp_basefw.bin

File: intel/avs/cnl/dsp_basefw.bin

Version: 10.23.00.8551

Link: intel/dsp_fw_cnl.bin -> avs/cnl/dsp_basefw.bin

License: Redistributable. See LICENCE.adsp_sst for details

Driver: snd_intel_sst_core

File: intel/fw_sst_0f28.bin

File: intel/fw_sst_0f28_ssp0.bin

License: Redistributable. See LICENCE.fw_sst_0f28 for details

Driver: snd_intel_sst_core

File: intel/fw_sst_22a8.bin

Version: 01.0B.02.02

License: Redistributable. See LICENCE.fw_sst_0f28 for details

Driver: snd-soc-skl

File: intel/dsp_fw_release_v969.bin

Version: 8.20.00.969

File: intel/dsp_fw_release_v3402.bin

Version: 9.21.00.3402_161

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_bxtn_v2219.bin

Version: 9.22.01.2219_64

File: intel/dsp_fw_bxtn_v3366.bin

Version: 9.22.01.3366_157

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_kbl_v701.bin

Version: 9.21.00.701

File: intel/dsp_fw_kbl_v1037.bin

Version: 09.21.00.1037

File: intel/dsp_fw_kbl_v2042.bin

Version: 9.21.00.2042_46

File: intel/dsp_fw_kbl_v2630.bin

Version: 9.21.00.2630_97

File: intel/dsp_fw_kbl_v3266.bin

Version: 9.21.00.3266_144

File: intel/dsp_fw_kbl_v3420.bin

Version: 9.21.00.3420_163

File: intel/dsp_fw_kbl_v3402.bin

Version: 9.21.00.3402_161

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_glk_v1814.bin

Version: 9.92.01.1814

File: intel/dsp_fw_glk_v2880.bin

Version: 9.22.00.2880

File: intel/dsp_fw_glk_v2768.bin

Version: 9.22.01.2768

File: intel/dsp_fw_glk_v3366.bin

Version: 9.22.01.3366_157

File: intel/dsp_fw_cnl_v1191.bin

Version: 10.00.00.1191

File: intel/dsp_fw_cnl_v1858.bin

Version: 10.23.00.1858

License: Redistributable. See LICENCE.adsp_sst for details

Driver: smsmdtv - Siano MDTV Core module

File: cmmb_vega_12mhz.inp

File: cmmb_venice_12mhz.inp

File: dvb_nova_12mhz.inp

File: dvb_nova_12mhz_b0.inp

File: isdbt_nova_12mhz.inp

File: isdbt_nova_12mhz_b0.inp

File: isdbt_rio.inp

File: smslxxx-hcw-55xxx-dvbt-02.fw

File: smslxxx-hcw-55xxx-isdbt-02.fw

File: smslxxx-nova-a-dvbt-01.fw

File: smslxxx-nova-b-dvbt-01.fw

File: smslxxx-stellar-dvbt-01.fw

File: tdmb_nova_12mhz.inp

Licence: Redistributable. See LICENCE.siano for details

Driver: xhci-tegra -- NVIDIA Tegra XHCI driver

File: nvidia/tegra124/xusb.bin

Version: v45.46

File: nvidia/tegra210/xusb.bin

Version: v50.24

File: nvidia/tegra186/xusb.bin

Version: v55.15

File: nvidia/tegra194/xusb.bin

Version: v60.06

Licence: Redistributable. See LICENCE.nvidia for details

Driver: tegra-vic -- NVIDIA Tegra VIC driver

File: nvidia/tegra124/vic03_ucose.bin

Link: nvidia/tegra124/vic.bin -> vic03_ucose.bin

File: nvidia/tegra210/vic04_ucose.bin

Link: nvidia/tegra210/vic.bin -> vic04_ucose.bin

File: nvidia/tegra186/vic04_ucose.bin

Link: nvidia/tegra186/vic.bin -> vic04_ucose.bin

File: nvidia/tegra194/vic.bin

Licence: Redistributable. See LICENCE.nvidia for details

Driver: atusb - ATUSB IEEE 802.15.4 transceiver driver

File: atusb/atusb-0.2.dfu

Version: 0.2

File: atusb/atusb-0.3.dfu

Version: 0.3

File: atusb/rzusb-0.3.bin

Version: 0.3

Info: atusb/ChangeLog

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

Driver: btqca - Qualcomm Atheros Bluetooth support for QCA61x4 chips

File: qca/nvm_usb_00000201.bin

File: qca/nvm_usb_00000200.bin

File: qca/nvm_usb_00000300.bin

File: qca/nvm_usb_00000302.bin

File: qca/nvm_00130300.bin

File: qca/nvm_00130302.bin

File: qca/nvm_00230302.bin

File: qca/rampatch_usb_00000200.bin

File: qca/rampatch_usb_00000201.bin
File: qca/rampatch_usb_00000300.bin
File: qca/rampatch_usb_00000302.bin
File: qca/rampatch_00130300.bin
File: qca/rampatch_00130302.bin
File: qca/rampatch_00230302.bin
File: qca/nvm_00440302.bin
File: qca/rampatch_00440302.bin
File: qca/nvm_00440302_eu.bin
File: qca/nvm_00440302_i2s_eu.bin
File: qca/nvm_usb_00000302_eu.bin
File: qca/htbtfw20.tlv
File: qca/htnv20.bin
File: qca/rampatch_usb_00130200.bin
File: qca/nvm_usb_00130200.bin
File: qca/nvm_usb_00130200_0104.bin
File: qca/nvm_usb_00130200_0105.bin
File: qca/nvm_usb_00130200_0106.bin
File: qca/nvm_usb_00130200_0107.bin
File: qca/nvm_usb_00130200_0109.bin
File: qca/nvm_usb_00130200_0110.bin
File: qca/rampatch_usb_00130201.bin
File: qca/nvm_usb_00130201.bin
File: qca/nvm_usb_00130201_010a.bin
File: qca/nvm_usb_00130201_010b.bin
File: qca/nvm_usb_00130201_0303.bin
File: qca/nvm_usb_00130201_gf.bin
File: qca/nvm_usb_00130201_gf_010a.bin
File: qca/nvm_usb_00130201_gf_010b.bin
File: qca/nvm_usb_00130201_gf_0303.bin
File: qca/rampatch_usb_00190200.bin
File: qca/nvm_usb_00190200.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

Driver: qca - Qualcomm Atheros Bluetooth support for WCN399x chips

File: qca/crbtfw21.tlv
File: qca/crnv21.bin
File: qca/crbtfw32.tlv
File: qca/crnv32.bin
File: qca/crnv32u.bin

Driver: qca - Qualcomm Atheros Bluetooth support for WCN6750 chips

File: qca/msbtfw11.mbn
File: qca/msbtfw11.tlv

File: qca/msnv11.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

Driver: qca - Qualcomm Atheros Bluetooth support for QCA2066 chips

File: qca/hpbtfw21.tlv

File: qca/hpnv21.bin

File: qca/hpnv21g.bin

File: qca/hpnv21.301

File: qca/hpnv21.302

File: qca/hpnv21g.301

File: qca/hpnv21g.302

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

Driver: liquidio -- Cavium LiquidIO driver

File: liquidio/lio_23xx_nic.bin

Version: v1.7.2

File: liquidio/lio_210nv_nic.bin

Version: v1.7.2

File: liquidio/lio_210sv_nic.bin

Version: v1.7.2

File: liquidio/lio_410nv_nic.bin

Version: v1.7.2

Licence: Redistributable. See LICENCE.cavium_liquidio for details

Driver: nitrox -- Cavium CNN55XX crypto driver

File: cavium/cnn55xx_ae.fw

Version: v01

File: cavium/cnn55xx_se.fw

Version: v10

Licence: Redistributable. See LICENCE.cavium for details

Driver: i915 -- Intel Integrated Graphics driver

File: i915/skl_dmc_ver1_23.bin

File: i915/skl_dmc_ver1_26.bin

File: i915/skl_dmc_ver1_27.bin

Link: i915/skl_dmc_ver1.bin -> skl_dmc_ver1_26.bin

Version: DMC API/ABI ver 1 - release 27 for Skylake

File: i915/bxt_dmc_ver1_07.bin

Link: i915/bxt_dmc_ver1.bin -> bxt_dmc_ver1_07.bin

Version: DMC API/ABI ver 1 - release 07 for Broxton

File: i915/kbl_dmc_ver1_01.bin

Link: i915/kbl_dmc_ver1.bin -> kbl_dmc_ver1_01.bin

Version: DMC API/ABI ver 1 - release 01 for Kabylake

File: i915/kbl_dmc_ver1_04.bin

Version: DMC API/ABI ver 1 - release 04 for Kabylake

File: i915/skl_guc_ver1.bin

Version: Guc API/ABI ver 1 - release 1059 for Skylake

File: i915/skl_guc_ver4.bin

Version: Guc API/ABI ver 4 - release 3 for Skylake

File: i915/skl_guc_ver6_1.bin

Link: i915/skl_guc_ver6.bin -> skl_guc_ver6_1.bin

Version: Guc API/ABI ver 6 - release 1 for Skylake

File: i915/skl_guc_ver9_33.bin

Version: Guc API/ABI ver 9 - release 33 for Skylake

File: i915/skl_guc_32.0.3.bin

Version: Guc API/ABI ver 32 - release 0 for Skylake

File: i915/skl_guc_33.0.0.bin

Version: Guc API/ABI ver 33 - release 0 for Skylake

File: i915/skl_guc_49.0.1.bin

Version: Guc API/ABI ver 49 - release 0 for Skylake

File: i915/skl_guc_62.0.0.bin

Version: GuC API/APB ver 62.0.0 for Skylake

File: i915/skl_guc_69.0.3.bin

Version: GuC API/APB ver 69.0.3 for Skylake

File: i915/skl_guc_70.1.1.bin

Version: GuC API/APB ver 70.1.1 for Skylake

File: i915/skl_huc_ver01_07_1398.bin
Version: HuC API/ABI ver 1 - release 7 for Skylake

File: i915/skl_huc_2.0.0.bin
Version: HuC API/ABI ver 2 - release 0 for Skylake

File: i915/bxt_huc_ver01_07_1398.bin
Version: HuC API/APB ver 1 - release 7 for Broxton

File: i915/bxt_huc_ver01_8_2893.bin
Version: HuC API/APB ver 1 - release 8 for Broxton

File: i915/bxt_huc_2.0.0.bin
Version: HuC API/APB ver 2 - release 0 for Broxton

File: i915/kbl_huc_ver02_00_1810.bin
Version: HuC API/APB ver 2 - for Kabylake

File: i915/kbl_huc_4.0.0.bin
Version: HuC API/APB ver 4 - for Kabylake

File: i915/bxt_guc_ver8_7.bin
Version: GuC API/APB ver 8 - release 7 for Broxton

File: i915/bxt_guc_ver9_29.bin
Version: GuC API/APB ver 9 - release 29 for Broxton

File: i915/bxt_guc_32.0.3.bin
Version: GuC API/APB ver 32 - release 0 for Broxton

File: i915/bxt_guc_33.0.0.bin
Version: GuC API/APB ver 33 - release 0 for Broxton

File: i915/bxt_guc_49.0.1.bin
Version: GuC API/APB ver 49 - release 0 for Broxton

File: i915/bxt_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Broxton

File: i915/bxt_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Broxton

File: i915/bxt_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Broxton

File: i915/kbl_guc_ver9_14.bin
Version: GuC API/APB ver 9 release 14 for Kabylake

File: i915/cml_guc_33.0.0.bin

Version: Guc API/APB ver 33 release 0 for Comet Lake

File: i915/cml_guc_49.0.1.bin

Version: Guc API/APB ver 49 release 0 for Comet Lake

File: i915/cml_guc_62.0.0.bin

Version: GuC API/APB ver 62.0.0 for Comet Lake

File: i915/cml_guc_69.0.3.bin

Version: GuC API/APB ver 69.0.3 for Comet Lake

File: i915/cml_guc_70.1.1.bin

Version: GuC API/APB ver 70.1.1 for Comet Lake

File: i915/kbl_guc_ver9_39.bin

Version: Guc API/APB ver 9 release 39 for Kabylake

File: i915/kbl_guc_32.0.3.bin

Version: Guc API/APB ver 32 release 0 for Kabylake

File: i915/kbl_guc_33.0.0.bin

Version: Guc API/APB ver 33 release 0 for Kabylake

File: i915/kbl_guc_49.0.1.bin

Version: Guc API/APB ver 49 release 0 for Kabylake

File: i915/kbl_guc_62.0.0.bin

Version: GuC API/APB ver 62.0.0 for Kabylake

File: i915/kbl_guc_69.0.3.bin

Version: GuC API/APB ver 69.0.3 for Kabylake

File: i915/kbl_guc_70.1.1.bin

Version: GuC API/APB ver 70.1.1 for Kabylake

File: i915/glk_guc_32.0.3.bin

Version: Guc API/APB ver 32 release 0 for Geminilake

File: i915/glk_guc_33.0.0.bin

Version: Guc API/APB ver 33 release 0 for Geminilake

File: i915/glk_guc_49.0.1.bin

Version: Guc API/APB ver 49 release 0 for Geminilake

File: i915/glk_guc_62.0.0.bin

Version: GuC API/APB ver 62.0.0 for Geminilake

File: i915/glk_guc_69.0.3.bin

Version: GuC API/APB ver 69.0.3 for Geminilake

File: i915/glk_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Geminilake

File: i915/glk_huc_ver03_01_2893.bin
Version: Huc API/APB ver 3 release 1 for Geminilake

File: i915/glk_huc_4.0.0.bin
Version: Huc API/APB ver 4 release 0 for Geminilake

File: i915/glk_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Geminilake

File: i915/cml_huc_4.0.0.bin
Version: HuC API/ABI ver 4 - release 0 for Cometlake

File: i915/cnl_dmc_ver1_06.bin
Version: DMC API/ABI ver 1 - release 06 for Cannonlake

File: i915/cnl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Cannonlake

File: i915/icl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for icelake

File: i915/icl_dmc_ver1_09.bin
Version: DMC API/ABI ver 1 - release 09 for icelake

File: i915/icl_guc_32.0.3.bin
Version: GuC API/APB ver 32 release 0 for Icelake

File: i915/icl_guc_33.0.0.bin
Version: GuC API/APB ver 33 release 0 for Icelake

File: i915/icl_guc_49.0.1.bin
Version: GuC API/APB ver 49 release 0 for Icelake

File: i915/icl_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Icelake

File: i915/icl_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Icelake

File: i915/icl_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Icelake

File: i915/icl_huc_ver8_4_3238.bin
Version: Huc API/APB ver 8 release 4 for Icelake

File: i915/tgl_dmc_ver2_04.bin
Version: DMC API/APB ver 2 release 4 for Tigerlake

File: i915/tgl_dmc_ver2_06.bin
Version: DMC API/APB ver 2 release 6 for Tigerlake

File: i915/tgl_dmc_ver2_08.bin
Version: DMC API/APB ver 2 release 8 for Tigerlake

File: i915/tgl_dmc_ver2_12.bin
Version: DMC API/APB ver 2 release 12 for Tigerlake

File: i915/icl_huc_9.0.0.bin
Version: Huc API/APB ver 9 release 0 for Icelake

File: i915/ehl_guc_33.0.4.bin
Version: Guc API/APB ver 33 release 0 for Elkhartlake

File: i915/ehl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Elkhartlake

File: i915/ehl_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Elkhartlake

File: i915/ehl_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Elkhartlake

File: i915/ehl_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Elkhartlake

File: i915/ehl_huc_9.0.0.bin
Version: Huc API/APB ver 9 release 0 for Elkhartlake

File: i915/tgl_guc_35.2.0.bin
Version: Guc API/APB ver 35 release 2 for Tigerlake

File: i915/tgl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Tigerlake

File: i915/tgl_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Tigerlake

File: i915/tgl_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Tigerlake

File: i915/tgl_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Tigerlake

File: i915/tgl_guc_70.bin
Version: GuC API/APB ver 70.5.1 for Tigerlake

File: i915/tgl_huc_7.0.3.bin

Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.0.12.bin

Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.5.0.bin

Version: Huc API/APB ver 7 release 5 for Tigerlake

File: i915/tgl_huc_7.9.3.bin

Version: HuC API/APB ver 7.9.3 for Tigerlake

File: i915/tgl_huc.bin

Version: HuC API/APB ver 7.9.3 for Tigerlake

File: i915/rkl_dmc_ver2_02.bin

Version: DMC API/APB ver 2 release 2 for Rocketlake

File: i915/rkl_dmc_ver2_03.bin

Version: DMC API/APB ver 2 release 3 for Rocketlake

File: i915/dg1_dmc_ver2_02.bin

Version: DMC API/APB ver 2 release 2 for DG1

File: i915/dg1_guc_49.0.1.bin

Version: GuC API/APB ver 49 release 0 for DG1

File: i915/dg1_guc_62.0.0.bin

Version: GuC API/APB ver 62.0.0 for DG1

File: i915/dg1_guc_69.0.3.bin

Version: GuC API/APB ver 69.0.3 for DG1

File: i915/dg1_guc_70.1.1.bin

Version: GuC API/APB ver 70.1.1 for DG1

File: i915/dg1_guc_70.bin

Version: GuC API/APB ver 70.5.1 for DG1

File: i915/dg1_huc_7.7.1.bin

Version: Huc API/APB ver 7 release 1 for DG1

File: i915/dg1_huc_7.9.3.bin

Version: HuC API/APB ver 7.9.3 for DG1

File: i915/dg1_huc.bin

Version: HuC API/APB ver 7.9.3 for DG1

File: i915/adls_dmc_ver2_01.bin

Version: DMC API/APB ver 2 release 1 for Alderlake S

File: i915/adlp_dmc_ver2_09.bin
Version: DMC API/APB ver 2 release 9 for Alderlake P

File: i915/adlp_dmc_ver2_10.bin
Version: DMC API/APB ver 2 release 10 for Alderlake P

File: i915/adlp_dmc_ver2_12.bin
Version: DMC API/APB ver 2 release 12 for Alderlake P

File: i915/adlp_dmc_ver2_14.bin
Version: DMC API/APB ver 2 release 14 for Alderlake P

File: i915/adlp_dmc_ver2_16.bin
Version: DMC API/APB ver 2 release 16 for Alderlake P

File: i915/adlp_dmc.bin
Version: DMC API/APB ver 2 release 19 for Alderlake P

File: i915/adlp_guc_62.0.3.bin
Version: GuC API/APB ver 62.0.3 for Alderlake P

File: i915/adlp_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Alderlake P

File: i915/adlp_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Alderlake P

File: i915/adlp_guc_70.bin
Version: GuC API/APB ver 70.5.1 for Alderlake P

File: i915/dg2_guc_70.1.2.bin
Version: GuC API/APB ver 70.1.2 for DG2

File: i915/dg2_guc_70.4.1.bin
Version: GuC API/APB ver 70.4.1 for DG2

File: i915/dg2_guc_70.bin
Version: GuC API/APB ver 70.5.1 for DG2

File: i915/dg2_huc_gsc.bin
Version: HuC API/APB ver 7.10.3 for DG2

File: i915/dg2_dmc_ver2_06.bin
Version: DMC API/APB ver 2 release 6 for DG2

File: i915/dg2_dmc_ver2_07.bin
Version: DMC API/APB ver 2 release 7 for DG2

File: i915/dg2_dmc_ver2_08.bin
Version: DMC API/APB ver 2 release 8 for DG2

File: i915/mtl_dmc_ver2_10.bin
Version: DMC API/APB ver 2 release 10 for Meteorlake

File: i915/mtl_dmc.bin
Version: DMC API/APB ver 2 release 12 for Meteorlake

License: Redistributable. See LICENSE.i915 for details

Driver: nouveau - NVIDIA GPU driver

File: nvidia/gk20a/fecs_data.bin
File: nvidia/gk20a/fecs_inst.bin
File: nvidia/gk20a/gpccs_data.bin
File: nvidia/gk20a/gpccs_inst.bin
File: nvidia/gk20a/sw_bundle_init.bin
File: nvidia/gk20a/sw_ctx.bin
File: nvidia/gk20a/sw_method_init.bin
File: nvidia/gk20a/sw_nonctx.bin
File: nvidia/gm200/acr/bl.bin
File: nvidia/gm200/acr/ucode_load.bin
File: nvidia/gm200/acr/ucode_unload.bin
File: nvidia/gm200/gr/fecs_bl.bin
File: nvidia/gm200/gr/fecs_data.bin
File: nvidia/gm200/gr/fecs_inst.bin
File: nvidia/gm200/gr/fecs_sig.bin
File: nvidia/gm200/gr/gpccs_bl.bin
File: nvidia/gm200/gr/gpccs_data.bin
File: nvidia/gm200/gr/gpccs_inst.bin
File: nvidia/gm200/gr/gpccs_sig.bin
File: nvidia/gm200/gr/sw_bundle_init.bin
File: nvidia/gm200/gr/sw_ctx.bin
File: nvidia/gm200/gr/sw_method_init.bin
File: nvidia/gm200/gr/sw_nonctx.bin
Link: nvidia/gm204/acr/bl.bin -> ../../gm200/acr/bl.bin
Link: nvidia/gm204/acr/ucode_load.bin -> ../../gm200/acr/ucode_load.bin
Link: nvidia/gm204/acr/ucode_unload.bin -> ../../gm200/acr/ucode_unload.bin
Link: nvidia/gm204/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gm204/gr/fecs_data.bin
Link: nvidia/gm204/gr/fecs_inst.bin -> ../../gm200/gr/fecs_inst.bin
File: nvidia/gm204/gr/fecs_sig.bin
Link: nvidia/gm204/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gm204/gr/gpccs_data.bin
Link: nvidia/gm204/gr/gpccs_inst.bin -> ../../gm200/gr/gpccs_inst.bin
File: nvidia/gm204/gr/gpccs_sig.bin
Link: nvidia/gm204/gr/sw_bundle_init.bin -> ../../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm204/gr/sw_ctx.bin -> ../../gm200/gr/sw_ctx.bin
Link: nvidia/gm204/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin
Link: nvidia/gm204/gr/sw_nonctx.bin -> ../../gm200/gr/sw_nonctx.bin

```
Link: nvidia/gm206/acr/bl.bin -> ../../gm200/acr/bl.bin
File: nvidia/gm206/acr/ucode_load.bin
File: nvidia/gm206/acr/ucode_unload.bin
Link: nvidia/gm206/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gm206/gr/fecs_data.bin
Link: nvidia/gm206/gr/fecs_inst.bin -> ../../gm200/gr/fecs_inst.bin
File: nvidia/gm206/gr/fecs_sig.bin
Link: nvidia/gm206/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gm206/gr/gpccs_data.bin
Link: nvidia/gm206/gr/gpccs_inst.bin -> ../../gm200/gr/gpccs_inst.bin
File: nvidia/gm206/gr/gpccs_sig.bin
Link: nvidia/gm206/gr/sw_bundle_init.bin -> ../../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm206/gr/sw_ctx.bin -> ../../gm200/gr/sw_ctx.bin
Link: nvidia/gm206/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin
Link: nvidia/gm206/gr/sw_nonctx.bin -> ../../gm200/gr/sw_nonctx.bin
File: nvidia/gm20b/acr/bl.bin
File: nvidia/gm20b/acr/ucode_load.bin
File: nvidia/gm20b/gr/fecs_bl.bin
File: nvidia/gm20b/gr/fecs_data.bin
File: nvidia/gm20b/gr/fecs_inst.bin
File: nvidia/gm20b/gr/fecs_sig.bin
File: nvidia/gm20b/gr/gpccs_data.bin
File: nvidia/gm20b/gr/gpccs_inst.bin
File: nvidia/gm20b/gr/sw_bundle_init.bin
File: nvidia/gm20b/gr/sw_ctx.bin
Link: nvidia/gm20b/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin
File: nvidia/gm20b/gr/sw_nonctx.bin
File: nvidia/gm20b/pmu/desc.bin
File: nvidia/gm20b/pmu/image.bin
File: nvidia/gm20b/pmu/sig.bin
File: nvidia/gp100/acr/bl.bin
File: nvidia/gp100/acr/ucode_load.bin
File: nvidia/gp100/acr/ucode_unload.bin
Link: nvidia/gp100/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gp100/gr/fecs_data.bin
File: nvidia/gp100/gr/fecs_inst.bin
File: nvidia/gp100/gr/fecs_sig.bin
Link: nvidia/gp100/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gp100/gr/gpccs_data.bin
File: nvidia/gp100/gr/gpccs_inst.bin
File: nvidia/gp100/gr/gpccs_sig.bin
File: nvidia/gp100/gr/sw_bundle_init.bin
File: nvidia/gp100/gr/sw_ctx.bin
File: nvidia/gp100/gr/sw_method_init.bin
File: nvidia/gp100/gr/sw_nonctx.bin
File: nvidia/gp102/acr/bl.bin
File: nvidia/gp102/acr/ucode_load.bin
File: nvidia/gp102/acr/ucode_unload.bin
File: nvidia/gp102/acr/unload_bl.bin
Link: nvidia/gp102/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
```


File: nvidia/gp102/gr/fecs_data.bin
File: nvidia/gp102/gr/fecs_inst.bin
File: nvidia/gp102/gr/fecs_sig.bin
Link: nvidia/gp102/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gp102/gr/gpccs_data.bin
File: nvidia/gp102/gr/gpccs_inst.bin
File: nvidia/gp102/gr/gpccs_sig.bin
File: nvidia/gp102/gr/sw_bundle_init.bin
File: nvidia/gp102/gr/sw_ctx.bin
File: nvidia/gp102/gr/sw_method_init.bin
File: nvidia/gp102/gr/sw_nonctx.bin
File: nvidia/gp102/nvdec/scrubber.bin
File: nvidia/gp102/sec2/desc.bin
File: nvidia/gp102/sec2/image.bin
File: nvidia/gp102/sec2/sig.bin
File: nvidia/gp102/sec2/desc-1.bin
File: nvidia/gp102/sec2/image-1.bin
File: nvidia/gp102/sec2/sig-1.bin
Link: nvidia/gp104/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp104/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp104/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp104/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
Link: nvidia/gp104/gr/fecs_bl.bin -> ../../gp102/gr/fecs_bl.bin
File: nvidia/gp104/gr/fecs_data.bin
File: nvidia/gp104/gr/fecs_inst.bin
File: nvidia/gp104/gr/fecs_sig.bin
Link: nvidia/gp104/gr/gpccs_bl.bin -> ../../gp102/gr/gpccs_bl.bin
File: nvidia/gp104/gr/gpccs_data.bin
File: nvidia/gp104/gr/gpccs_inst.bin
File: nvidia/gp104/gr/gpccs_sig.bin
Link: nvidia/gp104/gr/sw_bundle_init.bin -> ../../gp102/gr/sw_bundle_init.bin
Link: nvidia/gp104/gr/sw_ctx.bin -> ../../gp102/gr/sw_ctx.bin
Link: nvidia/gp104/gr/sw_method_init.bin -> ../../gp102/gr/sw_method_init.bin
Link: nvidia/gp104/gr/sw_nonctx.bin -> ../../gp102/gr/sw_nonctx.bin
Link: nvidia/gp104/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp104/sec2/desc.bin -> ../../gp102/sec2/desc.bin
Link: nvidia/gp104/sec2/image.bin -> ../../gp102/sec2/image.bin
Link: nvidia/gp104/sec2/sig.bin -> ../../gp102/sec2/sig.bin
Link: nvidia/gp104/sec2/desc-1.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp104/sec2/image-1.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp104/sec2/sig-1.bin -> ../../gp102/sec2/sig-1.bin
Link: nvidia/gp106/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp106/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp106/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp106/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
Link: nvidia/gp106/gr/fecs_bl.bin -> ../../gp102/gr/fecs_bl.bin
File: nvidia/gp106/gr/fecs_data.bin
Link: nvidia/gp106/gr/fecs_inst.bin -> ../../gp102/gr/fecs_inst.bin
File: nvidia/gp106/gr/fecs_sig.bin
Link: nvidia/gp106/gr/gpccs_bl.bin -> ../../gp102/gr/gpccs_bl.bin

File: nvidia/gp106/gr/gpccs_data.bin
Link: nvidia/gp106/gr/gpccs_inst.bin -> ../../gp102/gr/gpccs_inst.bin
File: nvidia/gp106/gr/gpccs_sig.bin
Link: nvidia/gp106/gr/sw_bundle_init.bin -> ../../gp102/gr/sw_bundle_init.bin
Link: nvidia/gp106/gr/sw_ctx.bin -> ../../gp102/gr/sw_ctx.bin
Link: nvidia/gp106/gr/sw_method_init.bin -> ../../gp102/gr/sw_method_init.bin
Link: nvidia/gp106/gr/sw_nonctx.bin -> ../../gp102/gr/sw_nonctx.bin
Link: nvidia/gp106/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp106/sec2/desc.bin -> ../../gp102/sec2/desc.bin
Link: nvidia/gp106/sec2/image.bin -> ../../gp102/sec2/image.bin
Link: nvidia/gp106/sec2/sig.bin -> ../../gp102/sec2/sig.bin
Link: nvidia/gp106/sec2/desc-1.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp106/sec2/image-1.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp106/sec2/sig-1.bin -> ../../gp102/sec2/sig-1.bin
Link: nvidia/gp107/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp107/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp107/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp107/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
File: nvidia/gp107/gr/fecs_bl.bin
File: nvidia/gp107/gr/fecs_data.bin
File: nvidia/gp107/gr/fecs_inst.bin
File: nvidia/gp107/gr/fecs_sig.bin
File: nvidia/gp107/gr/gpccs_bl.bin
File: nvidia/gp107/gr/gpccs_data.bin
File: nvidia/gp107/gr/gpccs_inst.bin
File: nvidia/gp107/gr/gpccs_sig.bin
Link: nvidia/gp107/gr/sw_bundle_init.bin -> ../../gp102/gr/sw_bundle_init.bin
File: nvidia/gp107/gr/sw_ctx.bin
Link: nvidia/gp107/gr/sw_method_init.bin -> ../../gp102/gr/sw_method_init.bin
File: nvidia/gp107/gr/sw_nonctx.bin
Link: nvidia/gp107/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp107/sec2/desc.bin -> ../../gp102/sec2/desc.bin
Link: nvidia/gp107/sec2/image.bin -> ../../gp102/sec2/image.bin
Link: nvidia/gp107/sec2/sig.bin -> ../../gp102/sec2/sig.bin
Link: nvidia/gp107/sec2/desc-1.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp107/sec2/image-1.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp107/sec2/sig-1.bin -> ../../gp102/sec2/sig-1.bin
File: nvidia/gp10b/acr/bl.bin
File: nvidia/gp10b/acr/ucode_load.bin
File: nvidia/gp10b/gr/fecs_bl.bin
File: nvidia/gp10b/gr/fecs_data.bin
File: nvidia/gp10b/gr/fecs_inst.bin
File: nvidia/gp10b/gr/fecs_sig.bin
File: nvidia/gp10b/gr/gpccs_bl.bin
File: nvidia/gp10b/gr/gpccs_data.bin
File: nvidia/gp10b/gr/gpccs_inst.bin
File: nvidia/gp10b/gr/gpccs_sig.bin
File: nvidia/gp10b/gr/sw_bundle_init.bin
File: nvidia/gp10b/gr/sw_ctx.bin
File: nvidia/gp10b/gr/sw_method_init.bin

File: nvidia/gp10b/gr/sw_nonctx.bin
File: nvidia/gp10b/pmu/desc.bin
File: nvidia/gp10b/pmu/image.bin
File: nvidia/gp10b/pmu/sig.bin
Link: nvidia/gp108/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp108/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp108/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp108/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
File: nvidia/gp108/gr/fecs_bl.bin
File: nvidia/gp108/gr/fecs_data.bin
File: nvidia/gp108/gr/fecs_inst.bin
File: nvidia/gp108/gr/fecs_sig.bin
File: nvidia/gp108/gr/gpccs_bl.bin
File: nvidia/gp108/gr/gpccs_data.bin
File: nvidia/gp108/gr/gpccs_inst.bin
File: nvidia/gp108/gr/gpccs_sig.bin
File: nvidia/gp108/gr/sw_bundle_init.bin
File: nvidia/gp108/gr/sw_ctx.bin
File: nvidia/gp108/gr/sw_method_init.bin
File: nvidia/gp108/gr/sw_nonctx.bin
Link: nvidia/gp108/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp108/sec2/desc.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp108/sec2/image.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp108/sec2/sig.bin -> ../../gp102/sec2/sig-1.bin
File: nvidia/gv100/acr/bl.bin
File: nvidia/gv100/acr/ucode_load.bin
File: nvidia/gv100/acr/ucode_unload.bin
File: nvidia/gv100/acr/unload_bl.bin
File: nvidia/gv100/gr/fecs_bl.bin
File: nvidia/gv100/gr/fecs_data.bin
File: nvidia/gv100/gr/fecs_inst.bin
File: nvidia/gv100/gr/fecs_sig.bin
File: nvidia/gv100/gr/gpccs_bl.bin
File: nvidia/gv100/gr/gpccs_data.bin
File: nvidia/gv100/gr/gpccs_inst.bin
File: nvidia/gv100/gr/gpccs_sig.bin
File: nvidia/gv100/gr/sw_bundle_init.bin
File: nvidia/gv100/gr/sw_ctx.bin
File: nvidia/gv100/gr/sw_method_init.bin
File: nvidia/gv100/gr/sw_nonctx.bin
File: nvidia/gv100/nvdec/scrubber.bin
File: nvidia/gv100/sec2/desc.bin
File: nvidia/gv100/sec2/image.bin
File: nvidia/gv100/sec2/sig.bin
File: nvidia/tu102/acr/bl.bin
File: nvidia/tu102/acr/ucode_ahesasc.bin
File: nvidia/tu102/acr/ucode_asb.bin
File: nvidia/tu102/acr/unload_bl.bin
File: nvidia/tu102/acr/ucode_unload.bin
File: nvidia/tu102/gr/fecs_bl.bin

File: nvidia/tu102/gr/fecs_data.bin
File: nvidia/tu102/gr/fecs_inst.bin
File: nvidia/tu102/gr/fecs_sig.bin
File: nvidia/tu102/gr/gpccs_bl.bin
File: nvidia/tu102/gr/gpccs_data.bin
File: nvidia/tu102/gr/gpccs_inst.bin
File: nvidia/tu102/gr/gpccs_sig.bin
File: nvidia/tu102/gr/sw_bundle_init.bin
File: nvidia/tu102/gr/sw_ctx.bin
File: nvidia/tu102/gr/sw_method_init.bin
File: nvidia/tu102/gr/sw_nonctx.bin
File: nvidia/tu102/gr/sw_veid_bundle_init.bin
File: nvidia/tu102/nvdec/scrubber.bin
File: nvidia/tu102/sec2/desc.bin
File: nvidia/tu102/sec2/image.bin
File: nvidia/tu102/sec2/sig.bin
Link: nvidia/tu104/acr/bl.bin -> ../../tu102/acr/bl.bin
Link: nvidia/tu104/acr/ucode_ahesasc.bin -> ../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu104/acr/ucode_asb.bin -> ../../tu102/acr/ucode_asb.bin
Link: nvidia/tu104/acr/unload_bl.bin -> ../../tu102/acr/unload_bl.bin
Link: nvidia/tu104/acr/ucode_unload.bin -> ../../tu102/acr/ucode_unload.bin
Link: nvidia/tu104/gr/fecs_bl.bin -> ../../tu102/gr/fecs_bl.bin
File: nvidia/tu104/gr/fecs_data.bin
File: nvidia/tu104/gr/fecs_inst.bin
File: nvidia/tu104/gr/fecs_sig.bin
Link: nvidia/tu104/gr/gpccs_bl.bin -> ../../tu102/gr/gpccs_bl.bin
File: nvidia/tu104/gr/gpccs_data.bin
File: nvidia/tu104/gr/gpccs_inst.bin
File: nvidia/tu104/gr/gpccs_sig.bin
File: nvidia/tu104/gr/sw_bundle_init.bin
File: nvidia/tu104/gr/sw_ctx.bin
File: nvidia/tu104/gr/sw_method_init.bin
File: nvidia/tu104/gr/sw_nonctx.bin
File: nvidia/tu104/gr/sw_veid_bundle_init.bin
Link: nvidia/tu104/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu104/sec2/desc.bin -> ../../tu102/sec2/desc.bin
Link: nvidia/tu104/sec2/image.bin -> ../../tu102/sec2/image.bin
Link: nvidia/tu104/sec2/sig.bin -> ../../tu102/sec2/sig.bin
Link: nvidia/tu106/acr/bl.bin -> ../../tu102/acr/bl.bin
Link: nvidia/tu106/acr/ucode_ahesasc.bin -> ../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu106/acr/ucode_asb.bin -> ../../tu102/acr/ucode_asb.bin
Link: nvidia/tu106/acr/unload_bl.bin -> ../../tu102/acr/unload_bl.bin
Link: nvidia/tu106/acr/ucode_unload.bin -> ../../tu102/acr/ucode_unload.bin
Link: nvidia/tu106/gr/fecs_bl.bin -> ../../tu102/gr/fecs_bl.bin
File: nvidia/tu106/gr/fecs_data.bin
File: nvidia/tu106/gr/fecs_inst.bin
File: nvidia/tu106/gr/fecs_sig.bin
Link: nvidia/tu106/gr/gpccs_bl.bin -> ../../tu102/gr/gpccs_bl.bin
File: nvidia/tu106/gr/gpccs_data.bin
File: nvidia/tu106/gr/gpccs_inst.bin

File: nvidia/tu106/gr/gpccs_sig.bin
File: nvidia/tu106/gr/sw_bundle_init.bin
File: nvidia/tu106/gr/sw_ctx.bin
File: nvidia/tu106/gr/sw_method_init.bin
File: nvidia/tu106/gr/sw_nonctx.bin
File: nvidia/tu106/gr/sw_veid_bundle_init.bin
Link: nvidia/tu106/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu106/sec2/desc.bin -> ../../tu102/sec2/desc.bin
Link: nvidia/tu106/sec2/image.bin -> ../../tu102/sec2/image.bin
Link: nvidia/tu106/sec2/sig.bin -> ../../tu102/sec2/sig.bin
File: nvidia/tu116/acr/bl.bin
File: nvidia/tu116/acr/ucode_ahesasc.bin
File: nvidia/tu116/acr/ucode_asb.bin
File: nvidia/tu116/acr/ucode_unload.bin
File: nvidia/tu116/acr/unload_bl.bin
File: nvidia/tu116/gr/fecs_bl.bin
File: nvidia/tu116/gr/fecs_data.bin
File: nvidia/tu116/gr/fecs_inst.bin
File: nvidia/tu116/gr/fecs_sig.bin
File: nvidia/tu116/gr/gpccs_bl.bin
File: nvidia/tu116/gr/gpccs_data.bin
File: nvidia/tu116/gr/gpccs_inst.bin
File: nvidia/tu116/gr/gpccs_sig.bin
File: nvidia/tu116/gr/sw_bundle_init.bin
File: nvidia/tu116/gr/sw_ctx.bin
File: nvidia/tu116/gr/sw_method_init.bin
File: nvidia/tu116/gr/sw_nonctx.bin
File: nvidia/tu116/gr/sw_veid_bundle_init.bin
File: nvidia/tu116/nvdec/scrubber.bin
File: nvidia/tu116/sec2/desc.bin
File: nvidia/tu116/sec2/image.bin
File: nvidia/tu116/sec2/sig.bin
Link: nvidia/tu117/acr/bl.bin -> ../../tu116/acr/bl.bin
Link: nvidia/tu117/acr/ucode_ahesasc.bin -> ../../tu116/acr/ucode_ahesasc.bin
Link: nvidia/tu117/acr/ucode_asb.bin -> ../../tu116/acr/ucode_asb.bin
Link: nvidia/tu117/acr/ucode_unload.bin -> ../../tu116/acr/ucode_unload.bin
Link: nvidia/tu117/acr/unload_bl.bin -> ../../tu116/acr/unload_bl.bin
Link: nvidia/tu117/gr/fecs_bl.bin -> ../../tu116/gr/fecs_bl.bin
File: nvidia/tu117/gr/fecs_data.bin
File: nvidia/tu117/gr/fecs_inst.bin
File: nvidia/tu117/gr/fecs_sig.bin
Link: nvidia/tu117/gr/gpccs_bl.bin -> ../../tu116/gr/gpccs_bl.bin
File: nvidia/tu117/gr/gpccs_data.bin
File: nvidia/tu117/gr/gpccs_inst.bin
File: nvidia/tu117/gr/gpccs_sig.bin
File: nvidia/tu117/gr/sw_bundle_init.bin
File: nvidia/tu117/gr/sw_ctx.bin
File: nvidia/tu117/gr/sw_method_init.bin
File: nvidia/tu117/gr/sw_nonctx.bin
File: nvidia/tu117/gr/sw_veid_bundle_init.bin

Link: nvidia/tu117/nvdec/scrubber.bin -> ../../tu116/nvdec/scrubber.bin
Link: nvidia/tu117/sec2/desc.bin -> ../../tu116/sec2/desc.bin
Link: nvidia/tu117/sec2/image.bin -> ../../tu116/sec2/image.bin
Link: nvidia/tu117/sec2/sig.bin -> ../../tu116/sec2/sig.bin
File: nvidia/ga102/acr/ucode_ahesasc.bin
File: nvidia/ga102/acr/ucode_asb.bin
File: nvidia/ga102/acr/ucode_unload.bin
File: nvidia/ga102/gr/fecs_bl.bin
File: nvidia/ga102/gr/fecs_sig.bin
File: nvidia/ga102/gr/gpccs_bl.bin
File: nvidia/ga102/gr/gpccs_sig.bin
File: nvidia/ga102/gr/NET_img.bin
File: nvidia/ga102/nvdec/scrubber.bin
File: nvidia/ga102/sec2/desc.bin
File: nvidia/ga102/sec2/hs_bl_sig.bin
File: nvidia/ga102/sec2/image.bin
File: nvidia/ga102/sec2/sig.bin
Link: nvidia/ga103/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga103/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga103/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga103/gr/fecs_bl.bin
File: nvidia/ga103/gr/fecs_sig.bin
File: nvidia/ga103/gr/gpccs_bl.bin
File: nvidia/ga103/gr/gpccs_sig.bin
File: nvidia/ga103/gr/NET_img.bin
Link: nvidia/ga103/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga103/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga103/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga103/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga103/sec2/sig.bin -> ../../ga102/sec2/sig.bin
Link: nvidia/ga104/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga104/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga104/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga104/gr/fecs_bl.bin
File: nvidia/ga104/gr/fecs_sig.bin
File: nvidia/ga104/gr/gpccs_bl.bin
File: nvidia/ga104/gr/gpccs_sig.bin
File: nvidia/ga104/gr/NET_img.bin
Link: nvidia/ga104/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga104/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga104/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga104/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga104/sec2/sig.bin -> ../../ga102/sec2/sig.bin
Link: nvidia/ga106/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga106/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga106/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga106/gr/fecs_bl.bin
File: nvidia/ga106/gr/fecs_sig.bin
File: nvidia/ga106/gr/gpccs_bl.bin
File: nvidia/ga106/gr/gpccs_sig.bin

File: nvidia/ga106/gr/NET_img.bin
Link: nvidia/ga106/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga106/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga106/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga106/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga106/sec2/sig.bin -> ../../ga102/sec2/sig.bin
Link: nvidia/ga107/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga107/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga107/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga107/gr/fecs_bl.bin
File: nvidia/ga107/gr/fecs_sig.bin
File: nvidia/ga107/gr/gpccs_bl.bin
File: nvidia/ga107/gr/gpccs_sig.bin
File: nvidia/ga107/gr/NET_img.bin
Link: nvidia/ga107/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga107/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga107/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga107/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga107/sec2/sig.bin -> ../../ga102/sec2/sig.bin

File: nvidia/tu10x/typec/ccg_primary.cyacd
File: nvidia/tu10x/typec/ccg_secondary.cyacd
File: nvidia/tu10x/typec/ccg_boot.cyacd

Licence: Redistributable. See LICENCE.nvidia for details

Driver: wilc1000 - Atmel 802.11n WLAN driver for WILC1000

File: atmel/wilc1000_fw.bin
File: atmel/wilc1000_ap_fw.bin
File: atmel/wilc1000_p2p_fw.bin
File: atmel/wilc1000_wifi_firmware.bin
File: atmel/wilc1000_wifi_firmware-1.bin
Version: 15.6

License: Redistributable. See LICENSE.atmel for details

Driver: hfil - Intel OPA Gen 1 adapter

File: hfil_dc8051.fw
Version: 1.27.0
File: hfil_fabric.fw
Version: 0x1055
File: hfil_pcie.fw
Version: 0x4755
File: hfil_sbus.fw

Version: 0x10130001

Licence: Redistributable. See LICENSE.hfil_firmware for details

Driver: knav_qmss_queue - TI Keystone 2 QMSS driver

File: ti-keystone/ks2_qmss_pdsp_acc48_k2_le_1_0_0_9.bin

Licence: Redistributable. See LICENSE.ti-keystone for details.

Driver: mwlwifi - Marvell mac80211 driver for 80211ac cards.

File: mwlwifi/88W8864.bin

Version: 7.2.8.6

File: mwlwifi/88W8897.bin

Version: 8.2.0.10

Licence: Redistributable. See LICENSE.Marvell for details.

Driver: mtk-vpu - MediaTek VPU video processing unit driver

File: mediatek/mt8173/vpu_d.bin

File: mediatek/mt8173/vpu_p.bin

Link: vpu_d.bin -> mediatek/mt8173/vpu_d.bin

Link: vpu_p.bin -> mediatek/mt8173/vpu_p.bin

Licence: Redistributable. See LICENSE.mediatek for details.

Driver: mtk_scp - MediaTek SCP System Control Processing Driver

File: mediatek/mt8183/scp.img

Version: v2.0.13324

File: mediatek/mt8186/scp.img

Version: v0.0.9

File: mediatek/mt8192/scp.img

Version: v2.0.20536

File: mediatek/mt8195/scp.img

Version: v2.0.20536

Licence: Redistributable. See LICENSE.mediatek for details.

Driver: btmtk - MediaTek Bluetooth Driver

File: mediatek/mt7622pr2h.bin
Version: 20180621204904
File: mediatek/mt7668pr2h.bin
Version: 20180517181834
File: mediatek/mt7663pr2h.bin
Version: 7663e2ccn04-2006030247

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: rk3399-dptx - ROCKCHIP rk3399 dptx firmware

File: rockchip/dptx.bin
Version: 3.1

Licence: Redistributable. See LICENCE.rockchip for details.

Driver: mt76x0 - MediaTek MT76x0 Wireless MACs

File: mediatek/mt7610u.bin
File: mediatek/mt7610e.bin
Version: 2.6
File: mediatek/mt7650e.bin
Version: 1.0.07-b370

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt76x2e - MediaTek MT76x2 Wireless MACs

File: mt7662.bin
Version: 1.9

File: mt7662_rom_patch.bin
Version: 0.0.2_P69

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Driver: mt76x2u - MediaTek MT76x2u Wireless MACs

File: mediatek/mt7662u.bin
Version: 1.5

File: mediatek/mt7662u_rom_patch.bin
Version: 0.0.2_P48

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7615e - MediaTek MT7615e Wireless MACs

File: mediatek/mt7615_n9.bin
Version: 20200814
File: mediatek/mt7615_cr4.bin
Version: 20190114
File: mediatek/mt7615_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7622 - MediaTek MT7622 Wireless MACs

File: mediatek/mt7622_n9.bin
Version: 20200630
File: mediatek/mt7622_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7663 - MediaTek MT7663 Wireless MACs

File: mediatek/mt7663pr2h.bin
Version: 7663e2ccn04-2006030247
File: mediatek/mt7663_n9_v3.bin
Version: v3.1.1

File: mediatek/mt7663pr2h_rebb.bin
Version: 7663e2-1802-19091404338b809
File: mediatek/mt7663_n9_rebb.bin
Version: 7663mp1827-20190914043434

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7915e - MediaTek Wireless MACs for MT7915/MT7916/MT7986

File: mediatek/mt7915_wm.bin
Version: 20220929104145
File: mediatek/mt7915_wa.bin
Version: 20220929104205
File: mediatek/mt7915_rom_patch.bin
Version: 20220929104113a
File: mediatek/mt7915_eeprom.bin
Version: 20200821
File: mediatek/mt7915_eeprom_dbdc.bin
Version: 20200821

File: mediatek/mt7916_wm.bin
Version: 20221031154713
File: mediatek/mt7916_wa.bin
Version: 20221031154757
File: mediatek/mt7916_rom_patch.bin
Version: 20221031154652a
File: mediatek/mt7916_eeprom.bin
Version: 20211130

File: mediatek/mt7986_wm.bin
Version: 20221012174725
File: mediatek/mt7986_wm_mt7975.bin
Version: 20221012174805
File: mediatek/mt7986_wa.bin
Version: 20221012174937
File: mediatek/mt7986_rom_patch.bin
Version: 20221012174648a
File: mediatek/mt7986_rom_patch_mt7975.bin
Version: 20221012174743a
File: mediatek/mt7986_wo_0.bin
Version: 20221012175005
File: mediatek/mt7986_wo_1.bin
Version: 20221012175032
File: mediatek/mt7986_eeprom_mt7976.bin
Version: 20211105
File: mediatek/mt7986_eeprom_mt7976_dbdc.bin
Version: 20220223
File: mediatek/mt7986_eeprom_mt7976_dual.bin
Version: 20211115
File: mediatek/mt7986_eeprom_mt7975_dual.bin
Version: 20220208

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7921 - MediaTek MT7921 Wireless MACs

File: mediatek/WIFI_MT7961_patch_mcu_1_2_hdr.bin
Version: 20230302150916a
File: mediatek/WIFI_RAM_CODE_MT7961_1.bin
Version: 20230302150956

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7921 - MediaTek MT7921 bluetooth chipset

File: mediatek/BT_RAM_CODE_MT7961_1_2_hdr.bin
Version: 20230302151355

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7922 - MediaTek MT7922 Wireless MACs

File: mediatek/WIFI_MT7922_patch_mcu_1_1_hdr.bin
Version: 20230328143229a
File: mediatek/WIFI_RAM_CODE_MT7922_1.bin
Version: 20230328143313

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7922 - MediaTek MT7922 bluetooth chipset

File: mediatek/BT_RAM_CODE_MT7922_1_1_hdr.bin
Version: 20230328143444

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: nfp - Netronome Flow Processor

Link: netronome/nic_AMDAA0081-0001_1x40.nffw -> nic/nic_AMDAA0081-0001_1x40.nffw
Link: netronome/nic_AMDAA0097-0001_2x40.nffw -> nic/nic_AMDAA0097-0001_2x40.nffw
Link: netronome/nic_AMDAA0099-0001_2x10.nffw -> nic/nic_AMDAA0099-0001_2x10.nffw
Link: netronome/nic_AMDAA0081-0001_4x10.nffw -> nic/nic_AMDAA0081-0001_4x10.nffw
Link: netronome/nic_AMDAA0097-0001_4x10_1x40.nffw ->
nic/nic_AMDAA0097-0001_4x10_1x40.nffw
Link: netronome/nic_AMDAA0099-0001_1x10_1x25.nffw ->
nic/nic_AMDAA0099-0001_1x10_1x25.nffw
Link: netronome/nic_AMDAA0099-0001_2x25.nffw -> nic/nic_AMDAA0099-0001_2x25.nffw
Link: netronome/nic_AMDAA0096-0001_2x10.nffw -> nic/nic_AMDAA0096-0001_2x10.nffw

Link: netronome/nic_AMDAA0097-0001_8x10.nffw -> nic/nic_AMDAA0097-0001_8x10.nffw
Link: netronome/nic_AMDAA0058-0011_2x40.nffw -> nic/nic_AMDAA0058-0011_2x40.nffw
Link: netronome/nic_AMDAA0058-0012_2x40.nffw -> nic/nic_AMDAA0058-0012_2x40.nffw
Link: netronome/nic_AMDAA0078-0011_1x100.nffw -> nic/nic_AMDAA0078-0011_1x100.nffw
File: netronome/nic/nic_AMDAA0081-0001_1x40.nffw
File: netronome/nic/nic_AMDAA0097-0001_2x40.nffw
File: netronome/nic/nic_AMDAA0099-0001_2x10.nffw
File: netronome/nic/nic_AMDAA0081-0001_4x10.nffw
File: netronome/nic/nic_AMDAA0097-0001_4x10_1x40.nffw
File: netronome/nic/nic_AMDAA0099-0001_1x10_1x25.nffw
File: netronome/nic/nic_AMDAA0099-0001_2x25.nffw
File: netronome/nic/nic_AMDAA0096-0001_2x10.nffw
File: netronome/nic/nic_AMDAA0097-0001_8x10.nffw
File: netronome/nic/nic_AMDAA0058-0011_2x40.nffw
File: netronome/nic/nic_AMDAA0058-0012_2x40.nffw
File: netronome/nic/nic_AMDAA0078-0011_1x100.nffw
File: netronome/nic-sriov/nic_AMDAA0081-0001_1x40.nffw
File: netronome/nic-sriov/nic_AMDAA0097-0001_2x40.nffw
File: netronome/nic-sriov/nic_AMDAA0099-0001_2x10.nffw
File: netronome/nic-sriov/nic_AMDAA0081-0001_4x10.nffw
File: netronome/nic-sriov/nic_AMDAA0097-0001_4x10_1x40.nffw
File: netronome/nic-sriov/nic_AMDAA0099-0001_1x10_1x25.nffw
File: netronome/nic-sriov/nic_AMDAA0099-0001_2x25.nffw
File: netronome/nic-sriov/nic_AMDAA0096-0001_2x10.nffw
File: netronome/nic-sriov/nic_AMDAA0097-0001_8x10.nffw
File: netronome/nic-sriov/nic_AMDAA0058-0011_2x40.nffw
File: netronome/nic-sriov/nic_AMDAA0058-0012_2x40.nffw
File: netronome/nic-sriov/nic_AMDAA0078-0011_1x100.nffw

Version: v2.1.16.1

File: netronome/flower/nic_AMDAA0099.nffw
File: netronome/flower/nic_AMDAA0096.nffw
File: netronome/flower/nic_AMDAA0097.nffw
File: netronome/flower/nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0081.nffw -> nic_AMDAA0097.nffw
Link: netronome/flower/nic_AMDAA0081-0001_1x40.nffw -> nic_AMDAA0081.nffw
Link: netronome/flower/nic_AMDAA0097-0001_2x40.nffw -> nic_AMDAA0097.nffw
Link: netronome/flower/nic_AMDAA0099-0001_2x10.nffw -> nic_AMDAA0099.nffw
Link: netronome/flower/nic_AMDAA0081-0001_4x10.nffw -> nic_AMDAA0081.nffw
Link: netronome/flower/nic_AMDAA0097-0001_4x10_1x40.nffw -> nic_AMDAA0097.nffw
Link: netronome/flower/nic_AMDAA0099-0001_2x25.nffw -> nic_AMDAA0099.nffw
Link: netronome/flower/nic_AMDAA0096-0001_2x10.nffw -> nic_AMDAA0096.nffw
Link: netronome/flower/nic_AMDAA0097-0001_8x10.nffw -> nic_AMDAA0097.nffw
Link: netronome/flower/nic_AMDAA0099-0001_1x10_1x25.nffw -> nic_AMDAA0099.nffw
Link: netronome/flower/nic_AMDAA0058-0011_1x100.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0011_2x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0011_4x10_1x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0011_8x10.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0012_1x100.nffw -> nic_AMDAA0058.nffw

Link: netronome/flower/nic_AMDAA0058-0012_2x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0012_4x10_1x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0012_8x10.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0011_1x100.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0011_2x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0011_4x10_1x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0011_8x10.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0012_1x100.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0012_2x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0012_4x10_1x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0012_8x10.nffw -> nic_AMDAA0058.nffw

Version: AOTC-2.14.A.6

File: netronome/bpf/nic_AMDAA0081-0001_1x40.nffw
File: netronome/bpf/nic_AMDAA0097-0001_2x40.nffw
File: netronome/bpf/nic_AMDAA0099-0001_2x10.nffw
File: netronome/bpf/nic_AMDAA0081-0001_4x10.nffw
File: netronome/bpf/nic_AMDAA0097-0001_4x10_1x40.nffw
File: netronome/bpf/nic_AMDAA0099-0001_1x10_1x25.nffw
File: netronome/bpf/nic_AMDAA0099-0001_2x25.nffw
File: netronome/bpf/nic_AMDAA0096-0001_2x10.nffw
File: netronome/bpf/nic_AMDAA0097-0001_8x10.nffw
File: netronome/bpf/nic_AMDAA0058-0011_2x40.nffw
File: netronome/bpf/nic_AMDAA0058-0012_2x40.nffw
File: netronome/bpf/nic_AMDAA0078-0011_1x100.nffw

Version: v2.0.6.124

Licence: Redistributable. See LICENCE.Netronome for details

Driver: wil6210 - Qualcomm Atheros support for llad family of chips

File: wil6210.fw
File: wil6210.brd
Version: 5.2.0.18

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

Driver: venus - Qualcomm Venus video codec accelerator

File: qcom/venus-1.8/venus.mbn
Link: qcom/venus-1.8/venus.mdt -> venus.mbn

Version: 1.8-00109

File: qcom/venus-4.2/venus.mbn
Link: qcom/venus-4.2/venus.mdt -> venus.mbn

Version: 4.2

File: qcom/venus-5.2/venus.mbn
Link: qcom/venus-5.2/venus.mdt -> venus.mbn

Version: 5.2-00023

File: qcom/venus-5.4/venus.mbn
Link: qcom/venus-5.4/venus.mdt -> venus.mbn

Version: 5.4-00053

File: qcom/vpu-1.0/venus.mbn
Link: qcom/vpu-1.0/venus.mdt -> venus.mbn

Version: VIDEO.VPU.1.0-00087-PROD-1

File: qcom/vpu-2.0/venus.mbn

Version: VIDEO.VPU.2.0-00049-PROD-1

Licence: Redistributable. See LICENSE.qcom and qcom/NOTICE.txt for details

Binary files supplied originally from
<https://developer.qualcomm.com/hardware/dragonboard-410c/tools>

Driver: imx-sdma - support for i.MX SDMA driver

File: imx/sdma/sdma-imx6q.bin
Version: 3.3
File: imx/sdma/sdma-imx7d.bin
Version: 4.2

Licence: Redistributable. See LICENSE.sdma_firmware for details

Driver: adreno - Qualcomm Adreno GPU firmware

File: qcom/a300_pfp.fw
Link: a300_pfp.fw -> qcom/a300_pfp.fw
File: qcom/a300_pm4.fw
Link: a300_pm4.fw -> qcom/a300_pm4.fw
File: qcom/a330_pfp.fw

File: qcom/a330_pm4.fw
File: qcom/a420_pfp.fw
File: qcom/a420_pm4.fw
File: qcom/a530_pfp.fw
File: qcom/a530_pm4.fw
File: qcom/a530v3_gpmu.fw2
File: qcom/apq8096/a530_zap.mbn
Link: qcom/a530_zap.mdt -> apq8096/a530_zap.mbn
File: qcom/a630_gmu.bin
File: qcom/a630_sqe.fw
File: qcom/sdm845/a630_zap.mbn
File: qcom/a650_gmu.bin
File: qcom/a650_sqe.fw
File: qcom/sm8250/a650_zap.mbn
File: qcom/a660_gmu.bin
File: qcom/a660_sqe.fw
File: qcom/leia_pfp_470.fw
File: qcom/leia_pm4_470.fw
File: qcom/sc8280xp/LENOVO/21BX/qcdxkmsuc8280.mbn

Licence: Redistributable. See LICENSE.qcom and qcom/NOTICE.txt for details

Binary files supplied originally from
<https://developer.qualcomm.com/hardware/dragonboard-410c/tools>

Driver: adreno - Qualcomm Adreno GPU firmware

File: qcom/yamato_pfp.fw
File: qcom/yamato_pm4.fw

Licence: Redistributable, BSD-3-Clause licence, See LICENSE.qcom_yamato for details

Binary files generated from header files in EfikaMX kernel sources. A prefix of four zero bytes was prepended to make them work with the DRM MSM driver. See
<https://github.com/genesi/linux-legacy/tree/master/drivers/mxc/amd-gpu>

Driver: qcom_q6v5_pas - Qualcomm remoteproc firmware

File: qcom/apq8096/adsp.mbn
File: qcom/apq8096/adspr.jsn
File: qcom/apq8096/adspua.jsn
File: qcom/apq8096/mba.mbn
File: qcom/apq8096/modem.mbn
File: qcom/apq8096/modemr.jsn
File: qcom/sdm845/adsp.mbn
File: qcom/sdm845/adspr.jsn

File: qcom/sdm845/adspua.jsn
 File: qcom/sdm845/cdsp.mbn
 File: qcom/sdm845/cdspr.jsn
 File: qcom/sm8250/adsp.mbn
 File: qcom/sm8250/adspr.jsn
 File: qcom/sm8250/adspua.jsn
 File: qcom/sm8250/cdsp.mbn
 File: qcom/sm8250/cdspr.jsn
 File: qcom/sc8280xp/LENOVO/21BX/adspr.jsn
 File: qcom/sc8280xp/LENOVO/21BX/adspua.jsn
 File: qcom/sc8280xp/LENOVO/21BX/battmgr.jsn
 File: qcom/sc8280xp/LENOVO/21BX/cdspr.jsn
 File: qcom/sc8280xp/LENOVO/21BX/qcadsp8280.mbn
 File: qcom/sc8280xp/LENOVO/21BX/qccdsp8280.mbn
 File: qcom/sc8280xp/LENOVO/21BX/qcslpi8280.mbn
 Link: qcom/LENOVO/21BX -> ../sc8280xp/LENOVO/21BX

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Binary files supplied originally from
http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip
http://releases.linaro.org/96boards/rb5/qualcomm/firmware/RB5_firmware_20210331-v4.zip

adsp.mbn has been converted from 20-adsp_split/firmware/adsp.* using
<https://github.com/andersson/pil-squasher>

cdsp.mbn has been converted from 21-cdsp_split/firmware/cdsp.* using
<https://github.com/andersson/pil-squasher>

 Driver: qcom_q6v5_mss - Qualcomm modem subsystem firmware

File: qcom/sdm845/mba.mbn
 File: qcom/sdm845/modem.mbn
 File: qcom/sdm845/modemuw.jsn

Licence: Redistributable. See LICENSE.qcom and qcom/NOTICE.txt for details

Binary files supplied originally from
http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip

modem.mbn has been converted from 28-modem/modem.* using
<https://github.com/andersson/pil-squasher>

Driver: mlxsw_spectrum - Mellanox Spectrum switch

File: mellanox/mlxsw_spectrum-13.1420.122.mfa2
File: mellanox/mlxsw_spectrum-13.1530.152.mfa2
File: mellanox/mlxsw_spectrum-13.1620.192.mfa2
File: mellanox/mlxsw_spectrum-13.1702.6.mfa2
File: mellanox/mlxsw_spectrum-13.1703.4.mfa2
File: mellanox/mlxsw_spectrum-13.1910.622.mfa2
File: mellanox/mlxsw_spectrum-13.2000.1122.mfa2
File: mellanox/mlxsw_spectrum-13.2000.1886.mfa2
File: mellanox/mlxsw_spectrum-13.2000.2308.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2308.mfa2
File: mellanox/mlxsw_spectrum-13.2000.2714.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2714.mfa2
File: mellanox/mlxsw_spectrum-13.2007.1168.mfa2
File: mellanox/mlxsw_spectrum2-29.2007.1168.mfa2
File: mellanox/mlxsw_spectrum3-30.2007.1168.mfa2
File: mellanox/mlxsw_spectrum-13.2008.1036.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1036.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.1036.mfa2
File: mellanox/mlxsw_spectrum-13.2008.1310.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1310.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.1310.mfa2
File: mellanox/mlxsw_spectrum-13.2008.1312.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1312.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.1312.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2018.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2018.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2018.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2304.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2304.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2304.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2406.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2406.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2406.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2438.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2438.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2438.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2946.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2946.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2946.mfa2
File: mellanox/mlxsw_spectrum-13.2008.3326.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.3326.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.3326.mfa2
File: mellanox/mlxsw_spectrum-13.2010.1006.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1006.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.1006.mfa2
File: mellanox/lc_ini_bundle_2010_1006.bin
File: mellanox/mlxsw_spectrum-13.2010.1232.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1232.mfa2

File: mellanox/mlxsw_spectrum3-30.2010.1232.mfa2
File: mellanox/mlxsw_spectrum-13.2010.1406.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1406.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.1406.mfa2
File: mellanox/mlxsw_spectrum-13.2010.1502.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1502.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.1502.mfa2
File: mellanox/lc_ini_bundle_2010_1502.bin
File: mellanox/mlxsw_spectrum-13.2010.3020.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.3020.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.3020.mfa2
File: mellanox/lc_ini_bundle_2010_3020.bin
File: mellanox/mlxsw_spectrum-13.2010.3146.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.3146.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.3146.mfa2
File: mellanox/lc_ini_bundle_2010_3146.bin

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Driver: cdns-mhdp - Cadence MHDP8546 DP bridge

File: cadence/mhdp8546.bin

Version: 2.1.0

Licence: Redistributable. See LICENCE.cadence for details

Driver: fsl-mc bus - NXP Management Complex Bus Driver

File: dpaa2/mc/mc_10.10.0_ls1088a.itb

File: dpaa2/mc/mc_10.10.0_ls2088a.itb

File: dpaa2/mc/mc_10.10.0_lx2160a.itb

File: dpaa2/mc/mc_10.14.3_ls1088a.itb

File: dpaa2/mc/mc_10.14.3_ls2088a.itb

File: dpaa2/mc/mc_10.14.3_lx2160a.itb

File: dpaa2/mc/mc_10.16.2_ls1088a.itb

File: dpaa2/mc/mc_10.16.2_ls2088a.itb

File: dpaa2/mc/mc_10.16.2_lx2160a.itb

File: dpaa2/mc/mc_10.18.0_ls1088a.itb

File: dpaa2/mc/mc_10.18.0_ls2088a.itb

File: dpaa2/mc/mc_10.18.0_lx2160a.itb

File: dpaa2/mc/mc_10.28.1_ls1088a.itb

File: dpaa2/mc/mc_10.28.1_ls2088a.itb

File: dpaa2/mc/mc_10.28.1_lx2160a.itb

Licence: Redistributable. See LICENSE.nxp_mc_firmware for details

Driver: mscv-phy - Microchip PHY drivers

File: microchip/mscc_vsc8574_revb_int8051_29e8.bin

File: microchip/mscc_vsc8584_revb_int8051_fb48.bin

Licence: Redistributable. See LICENCE.microchip for details

Driver: meson-vdec - Amlogic video decoder

File: meson/vdec/g12a_h264.bin

File: meson/vdec/g12a_hevc_mmu.bin

File: meson/vdec/g12a_vp9.bin

File: meson/vdec/gxbb_h264.bin

File: meson/vdec/gxl_h263.bin

File: meson/vdec/gxl_h264.bin

File: meson/vdec/gxl_hevc.bin

File: meson/vdec/gxl_hevc_mmu.bin

File: meson/vdec/gxl_mjpeg.bin
File: meson/vdec/gxl_mpeg12.bin
File: meson/vdec/gxl_mpeg4_5.bin
File: meson/vdec/gxl_vp9.bin
File: meson/vdec/gxm_h264.bin
File: meson/vdec/sml_hevc_mmu.bin
File: meson/vdec/sml_vp9_mmu.bin

Licence: Redistributable. See LICENSE.amlogic_vdec for details.

Driver: ice - Intel(R) Ethernet Connection E800 Series

File: intel/ice/ddp/ice-1.3.30.0.pkg
Link: intel/ice/ddp/ice.pkg -> ice-1.3.30.0.pkg

Licence: Redistributable. See LICENSE.ice for details

File: intel/ice/ddp-comms/ice_comms-1.3.31.0.pkg
File: intel/ice/ddp-wireless_edge/ice_wireless_edge-1.3.7.0.pkg

Licence: Redistributable. See LICENSE.ice_enhanced for details

Driver: inside-secure -- Inside Secure EIP197 crypto driver

File: inside-secure/eip197_minifw/ipue.bin
File: inside-secure/eip197_minifw/ifpp.bin

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Driver: presteria - Marvell driver for Presteria family ASIC devices

File: mrvl/presteria/mvsw_presteria_fw-v2.0.img
File: mrvl/presteria/mvsw_presteria_fw-v3.0.img
File: mrvl/presteria/mvsw_presteria_fw-v4.0.img
File: mrvl/presteria/mvsw_presteria_fw-v4.1.img
File: mrvl/presteria/mvsw_presteria_fw_arm64-v4.1.img

Licence: Redistributable. See LICENCE.Marvell for details.

Driver: lt961luxc - Lontium DSI to HDMI bridge

File: lt961luxc_fw.bin

License: Redistributable. See LICENSE.Lontium for details.

Driver: wfx - Silicon Labs Wi-Fi Transceiver

File: wfx/wfm_wf200_C0.sec

Version: 3.14

File: wfx/brd4001a.pds

File: wfx/brd8022a.pds

File: wfx/brd8023a.pds

Licence: Redistributable. See wfx/LICENCE.wf200 for details.

The firmware itself originates from <https://github.com/SiliconLabs/wfx-firmware>

The *.pds files come from <https://github.com/SiliconLabs/wfx-pds>

They have been processed with the tool "pds_compress" available on
<https://github.com/SiliconLabs/wfx-linux-tools>

Driver: wave5 - Chips&Media, Inc. video codec driver

File: cnm/wave521c_k3_codec_fw.bin

Licence: Redistributable. See LICENSE.cnm for details.

Driver: rvu_cptpf - Marvell CPT driver

File: mrvl/cpt01/ae.out

File: mrvl/cpt01/se.out

File: mrvl/cpt01/ie.out

File: mrvl/cpt02/ae.out

File: mrvl/cpt02/se.out

File: mrvl/cpt02/ie.out

File: mrvl/cpt03/ae.out

File: mrvl/cpt03/se.out

File: mrvl/cpt03/ie.out

File: mrvl/cpt04/ae.out
 File: mrvl/cpt04/se.out
 File: mrvl/cpt04/ie.out
 Version: v1.21

Licence: Redistributable. See LICENCE.Marvell for details.

Driver: amphion - Amphion VPU(Video Processing Unit) Codec IP driver

File: amphion/vpu/vpu_fw_imx8_dec.bin
 Version: 1.8.8
 File: amphion/vpu/vpu_fw_imx8_enc.bin
 Version: 1.3.4

Licence: Redistributable. See LICENSE.amphion_vpu for details

Driver: cs35l41_hda - CS35l41 ALSA HDA audio driver

File: cirrus/cs35l41-dsp1-spk-prot.wmfw
 File: cirrus/cs35l41-dsp1-spk-prot.bin
 File: cirrus/cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
 Link: cirrus/cs35l41-dsp1-spk-prot-103c8971.wmfw ->
 cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
 Link: cirrus/cs35l41-dsp1-spk-cali-103c8971.wmfw ->
 cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
 Link: cirrus/cs35l41-dsp1-spk-prot-103c8972.wmfw ->
 cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
 Link: cirrus/cs35l41-dsp1-spk-cali-103c8972.wmfw ->
 cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
 Link: cirrus/cs35l41-dsp1-spk-prot-103c8973.wmfw ->
 cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
 Link: cirrus/cs35l41-dsp1-spk-cali-103c8973.wmfw ->
 cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
 Link: cirrus/cs35l41-dsp1-spk-prot-103c8974.wmfw ->
 cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
 Link: cirrus/cs35l41-dsp1-spk-cali-103c8974.wmfw ->
 cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
 Link: cirrus/cs35l41-dsp1-spk-prot-103c8975.wmfw ->
 cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
 Link: cirrus/cs35l41-dsp1-spk-cali-103c8975.wmfw ->
 cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
 Link: cirrus/cs35l41-dsp1-spk-prot-103c896e.wmfw ->
 cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
 Link: cirrus/cs35l41-dsp1-spk-cali-103c896e.wmfw ->
 cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
 Link: cirrus/cs35l41-dsp1-spk-prot-103c89c3.wmfw ->

cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c89c3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8981.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8981.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c898e.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c898e.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c898f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c898f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8991.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8991.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8992.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8992.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8994.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8994.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8995.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8995.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c89c6.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c89c6.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dspl-spk-prot-103c8971.bin
File: cirrus/cs35141-dspl-spk-cali-103c8971.bin
File: cirrus/cs35141-dspl-spk-prot-103c8972.bin
File: cirrus/cs35141-dspl-spk-cali-103c8972.bin
File: cirrus/cs35141-dspl-spk-prot-103c8973.bin
File: cirrus/cs35141-dspl-spk-cali-103c8973.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8974.bin ->
cs35141-dspl-spk-prot-103c8972.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8974.bin ->
cs35141-dspl-spk-cali-103c8972.bin
File: cirrus/cs35141-dspl-spk-prot-103c8975-r0.bin
File: cirrus/cs35141-dspl-spk-cali-103c8975-r0.bin
File: cirrus/cs35141-dspl-spk-prot-103c8975-10.bin
File: cirrus/cs35141-dspl-spk-cali-103c8975-10.bin
File: cirrus/cs35141-dspl-spk-prot-103c896e-r0.bin

File: cirrus/cs35141-dsp1-spk-cali-103c896e-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-103c896e-10.bin
File: cirrus/cs35141-dsp1-spk-cali-103c896e-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c898e.bin ->
cs35141-dsp1-spk-prot-103c8971.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c898e.bin ->
cs35141-dsp1-spk-cali-103c8971.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c898f.bin ->
cs35141-dsp1-spk-prot-103c8971.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c898f.bin ->
cs35141-dsp1-spk-cali-103c8971.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c8991.bin ->
cs35141-dsp1-spk-prot-103c8972.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8991.bin ->
cs35141-dsp1-spk-cali-103c8972.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c8992.bin ->
cs35141-dsp1-spk-prot-103c8972.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8992.bin ->
cs35141-dsp1-spk-cali-103c8972.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c8994.bin ->
cs35141-dsp1-spk-prot-103c8973.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8994.bin ->
cs35141-dsp1-spk-cali-103c8973.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c8995.bin ->
cs35141-dsp1-spk-prot-103c8973.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8995.bin ->
cs35141-dsp1-spk-cali-103c8973.bin
File: cirrus/cs35141-dsp1-spk-prot-103c89c6-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-103c89c6-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-103c89c6-10.bin
File: cirrus/cs35141-dsp1-spk-cali-103c89c6-10.bin
File: cirrus/cs35141-dsp1-spk-prot-103c89c3-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-103c89c3-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-103c89c3-r1.bin
File: cirrus/cs35141-dsp1-spk-cali-103c89c3-r1.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c89c3-10.bin ->
cs35141-dsp1-spk-prot-103c89c3-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c89c3-10.bin ->
cs35141-dsp1-spk-cali-103c89c3-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c89c3-11.bin ->
cs35141-dsp1-spk-prot-103c89c3-r1.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c89c3-11.bin ->
cs35141-dsp1-spk-cali-103c89c3-r1.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8981-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8981-r1.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8981-10.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8981-11.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8981-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8981-r1.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8981-10.bin

File: cirrus/cs35141-dsp1-spk-cali-103c8981-l1.bin
File: cirrus/cs35141/v6.39.0/halo_cspl_RAM_revB2_29.41.0.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa3847.wmfw ->
cs35141/v6.39.0/halo_cspl_RAM_revB2_29.41.0.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa3847.wmfw ->
cs35141/v6.39.0/halo_cspl_RAM_revB2_29.41.0.wmfw
File: cirrus/cs35141-dsp1-spk-prot-17aa3847-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa3847-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa3847-spki0.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa3847-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa3847-spki1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa3847-spki1.bin
File: cirrus/cs35141/v6.47.0/halo_cspl_RAM_revB2_29.49.0.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa3855.wmfw ->
cs35141/v6.47.0/halo_cspl_RAM_revB2_29.49.0.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa3855.wmfw ->
cs35141/v6.47.0/halo_cspl_RAM_revB2_29.49.0.wmfw
File: cirrus/cs35141-dsp1-spk-prot-17aa3855-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa3855-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa3855-spki0.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa3855-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa3855-spki1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa3855-spki1.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa22f1.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa22f1.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa22f2.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa22f2.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa22f3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa22f3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dsp1-spk-prot-17aa22f1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa22f1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa22f1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa22f1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa22f2-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa22f2-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa22f2-10.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa22f2-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa22f3-10.bin ->
cs35141-dsp1-spk-prot-17aa22f2-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa22f3-r0.bin ->
cs35141-dsp1-spk-prot-17aa22f2-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa22f3-10.bin ->
cs35141-dsp1-spk-cali-17aa22f2-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa22f3-r0.bin ->

cs35141-dsp1-spk-cali-17aa22f2-r0.bin
File: cirrus/cs35141/v6.63.0/halo_cspl_RAM_revB2_29.65.0.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-104312af.wmfw ->
cs35141/v6.63.0/halo_cspl_RAM_revB2_29.65.0.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-104312af.wmfw ->
cs35141/v6.63.0/halo_cspl_RAM_revB2_29.65.0.wmfw
File: cirrus/cs35141-dsp1-spk-prot-104312af-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-104312af-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-104312af-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-104312af-spki1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-104312af-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-104312af-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-104312af-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-104312af-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431a8f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431a8f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dsp1-spk-prot-10431a8f-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a8f-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a8f-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a8f-spki1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431e02.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431e02.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dsp1-spk-prot-10431e02-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e02-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e02-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e02-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e02-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e02-spki1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e02-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e02-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431f12.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431f12.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dsp1-spk-cali-10431f12-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431f12-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431f12-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431f12-spki1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431f12-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431f12-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431f12-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431f12-spki1-r0.bin

```
Link: cirrus/cs35141-dsp1-spk-prot-10431e12.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431e12.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dsp1-spk-cali-10431e12-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e12-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e12-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e12-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e12-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e12-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e12-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e12-spkid1-r0.bin
```

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Driver: mtk-sof - MediaTek Sound Open Firmware driver

```
File: mediatek/sof/sof-mt8186.ri
File: mediatek/sof/sof-mt8186.ldc
File: mediatek/sof-tplg/sof-mt8186.tplg
Version: v0.2.1
```

```
File: mediatek/sof/sof-mt8195.ri
File: mediatek/sof/sof-mt8195.ldc
File: mediatek/sof-tplg/sof-mt8195-mt6359-rt1019-rt5682.tplg
File: mediatek/sof-tplg/sof-mt8195-mt6359-rt1019-rt5682-dts.tplg
Version: v0.4.1
```

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Driver: nxp-srlxx - NXP Ultra Wide Band driver

```
File: nxp/sr150_fw.bin
Version: 35.00.03
```

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Originates from <https://github.com/NXP/uwb-NXPUBW-FW.git>

Driver: btnxpuart - NXP BT UART driver

File: nxp/uartuart8997_bt_v4.bin
 File: nxp/uartiw416_bt_v0.bin
 File: nxp/helper_uart_3000000.bin
 Version: 16.92.21.p81

File: nxp/uartuart8987_bt.bin
 Version: 16.92.21.p76.5

File: nxp/uartuart9098_bt_v1.bin
 Version: 17.92.1.p136.24

File: nxp/uartspi_n61x_v1.bin.se
 Version: 18.99.1.p154.40

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```
-----
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linux-5.10: COPYING
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```
=====
lpkit-udev-common-1.0: sources/poky/meta/files/common-licenses/MIT
=====
```

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lsof-4.94.0: 00README, 645-679
=====
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```
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ltnng-ust-2.13.5: LICENSE
=====
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snprintf/fileext.h
snprintf/floatio.h
snprintf/fvwrite.c

```

snprintf/fvwrite.h
snprintf/local.h
snprintf/mbrtowc_sb.c
snprintf/snprintf.c
snprintf/various.h
snprintf/vfprintf.c
snprintf/wcio.h:5
snprintf/wsetup.c

```

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```

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tests/utils/tap.c

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```
tests/utils/tap.sh
```

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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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Gallium code	src/gallium/	MIT

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

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```
=====
mhdfs-0.1.39+git: COPYING
=====
```

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

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nspr-4.29: configure.in, 3-6
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nspr-4.29: Makefile.in, 4-38
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MOD_DEPTH    = .
topsrcdir    = @top_srcdir@
srcdir       = @srcdir@
VPATH        = @srcdir@

include $(MOD_DEPTH)/config/autoconf.mk

DIRS = config pr lib

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

DIST_GARBAGE = config.cache config.log config.status

all:: config.status export

include $(topsrcdir)/config/rules.mk

config.status:: configure
ifeq ($(OS_ARCH), WINNT)
    sh $(srcdir)/configure --no-create --no-recursion
else
=====
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rsmic-git: rsmic.c, 1-1
=====
```

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=====
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```

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=====
shadow-4.11.1: src/passwd.c, 2-30
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*/
```

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

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

```
#include <errno.h>
```

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

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

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

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

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=====
xcb-util-0.4.0: src/xcb_event.h, 1-27
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=====
xcb-util-image-0.4.0: image/xcb_image.c, 1-24
=====
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=====
xcb-util-image-0.4.0: image/xcb_image.h, 4-27
=====

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

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

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=====
xcb-util-renderutil-0.3.9: renderutil/util.c, 1-20
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=====  
xcb-util-renderutil-0.3.9: renderutil/xcb_renderutil.h, 1-24  
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=====
xcb-util-wm-0.4.1: ewmh/ewmh.c.m4, 1-27
=====
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=====
xcb-util-wm-0.4.1: ewmh/xcb_ewmh.h.m4, 4-30
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=====
xcb-util-wm-0.4.1: icccm/icccm.c, 1-28
=====
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=====
xcb-util-wm-0.4.1: icccm/xcb_icccm.h, 4-31
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xinput-calibrator-0.7.5+git: src/calibrator.cpp, 1-22
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xterm-372: xterm.h, 3-31
=====
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```
=====
xz-5.2.6: lib/getopt.c, 1-23
=====
```

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

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

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zlib-1.2.11: zlib.h, 6-23
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```

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

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

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

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