

# R&S® SMM100A

## Vector Signal Generator

### Open Source Acknowledgment



1440800200  
Version 11.00

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- R&S®SMM100A

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

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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
aws-sign2	0.7.0	Apache License 2.0
aws4	1.12.0	MIT License
babel-jest	27.5.1	MIT License
babel-loader	8.2.3	MIT License

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babel-plugin-istanbul	6.1.1	<a href="#">BSD 3-clause "New" or "Revised" License</a>
babel-plugin-jest-hoist	27.5.1	<a href="#">MIT License</a>
babel-plugin-polyfill-corejs2	0.3.1	<a href="#">MIT License</a>
babel-plugin-polyfill-corejs3	0.5.2	<a href="#">MIT License</a>
babel-plugin-polyfill-regenerator	0.3.1	<a href="#">MIT License</a>
babel-preset-current-node-syntax	1.0.1	<a href="#">MIT License</a>
babel-preset-jest	27.5.1	<a href="#">MIT License</a>
babel/code-frame	7.18.6	<a href="#">MIT License</a>
babel/compat-data	7.17.7	<a href="#">MIT License</a>
babel/core	7.17.8	<a href="#">MIT License</a>
babel/generator	7.21.1	<a href="#">MIT License</a>
babel/helper-annotate-as-pure	7.16.7	<a href="#">MIT License</a>
babel/helper-annotate-as-pure	7.18.6	<a href="#">MIT License</a>
babel/helper-builder-binary-assignment-operator-visitor	7.16.7	<a href="#">MIT License</a>
babel/helper-compilation-targets	7.17.7	<a href="#">MIT License</a>
babel/helper-create-class-features-plugin	7.21.0	<a href="#">MIT License</a>
babel/helper-create-regexp-features-plugin	7.17.0	<a href="#">MIT License</a>
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babel/helper-hoist-variables	7.18.6	<a href="#">MIT License</a>
babel/helper-member-expression-to-functions	7.21.0	<a href="#">MIT License</a>
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babel/helper-module-transforms	7.17.7	<a href="#">MIT License</a>
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babel/helper-wrap-function	7.16.8	<a href="#">MIT License</a>
babel/helpers	7.17.8	<a href="#">MIT License</a>

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babel/plugin-syntax-top-level-await	7.14.5	<a href="#">MIT License</a>
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babel/plugin-transform-member-expression-literals	7.16.7	<a href="#">MIT License</a>
babel/plugin-transform-modules-amd	7.16.7	<a href="#">MIT License</a>
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babel/plugin-transform-property-literals	7.16.7	<a href="#">MIT License</a>
babel/plugin-transform-regenerator	7.16.7	<a href="#">MIT License</a>
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babel/plugin-transform-typeof-symbol	7.16.7	<a href="#">MIT License</a>
babel/plugin-transform-unicode-escapes	7.16.7	<a href="#">MIT License</a>
babel/plugin-transform-unicode-regex	7.16.7	<a href="#">MIT License</a>
babel/preset-env	7.16.11	<a href="#">MIT License</a>
babel/preset-modules	0.1.5	<a href="#">MIT License</a>
babel/runtime	7.16.7	<a href="#">MIT License</a>
babel/template	7.16.7	<a href="#">MIT License</a>
babel/template	7.20.7	<a href="#">MIT License</a>
babel/traverse	7.21.2	<a href="#">MIT License</a>
babel/types	7.21.2	<a href="#">MIT License</a>
balanced-match	1.0.2	<a href="#">MIT License</a>
base-files	3.0.14	<a href="#">GPL-2.0-only License</a>
base-passwd	3.5.29	<a href="#">GPL-2.0-only License</a>
base64-js	1.5.1	<a href="#">MIT License</a>
bcoe/v8-coverage	0.2.3	<a href="#">MIT License</a>
bcrypt-pbkdf	1.0.2	<a href="#">BSD 3-clause "New" or "Revised" License</a>
big.js	5.2.2	<a href="#">MIT License</a>
binary-extensions	2.2.0	<a href="#">MIT License</a>
binutils	2.38	<a href="#">GPL-3.0-only License</a>
bl	4.1.0	<a href="#">MIT License</a>
blob-util	2.0.2	<a href="#">Apache License 2.0</a>
bluebird	3.7.1	<a href="#">MIT License</a>
bluebird	3.7.2	<a href="#">MIT License</a>
Boost	1.64.0	<a href="#">Boost Software License 1.0</a>

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

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check-more-types	2.24.0	<a href="#">MIT License</a>
chokidar	3.5.3	<a href="#">MIT License</a>
chownr	2.0.0	<a href="#">ISC License</a>
chrome-trace-event	1.0.3	<a href="#">MIT License</a>
ci-info	3.3.0	<a href="#">MIT License</a>
cifs-utils	6.14	GPL-3.0-only License AND LGPL-3.0-only License
cjs-module-lexer	1.2.2	<a href="#">MIT License</a>
cjson	1.7.15	MIT License
classlist.js	1.1.20150312	Public Domain
clean-stack	2.2.0	<a href="#">MIT License</a>
cli-cursor	3.1.0	<a href="#">MIT License</a>
cli-spinners	2.6.1	<a href="#">MIT License</a>
cli-table3	0.6.3	<a href="#">MIT License</a>
cli-truncate	2.1.0	<a href="#">MIT License</a>
cli-width	3.0.0	<a href="#">ISC License</a>
cliui	6.0.0	<a href="#">ISC License</a>
clone	1.0.4	<a href="#">MIT License</a>
clone-deep	4.0.1	<a href="#">MIT License</a>
CMSIS	5.7.0	<a href="#">Apache License 2.0</a>
CMSIS Device	2.6.4	<a href="#">BSD 3-clause "New" or "Revised" License</a>
co	4.6.0	<a href="#">MIT License</a>
Code from the FreeBSD Project	unspecific	<a href="#">BSD 3-clause "New" or "Revised" License</a>
Code from the LLVM Compiler Infrastructure	unspecific	<a href="#">The University of Illinois - NCSA Open Source License</a>
collect-v8-coverage	1.0.1	<a href="#">MIT License</a>
color-convert	1.9.3	<a href="#">MIT License</a>
color-convert	2.0.1	<a href="#">MIT License</a>
color-name	1.1.3	<a href="#">MIT License</a>
color-name	1.1.4	<a href="#">MIT License</a>
color-support	1.1.3	<a href="#">ISC License</a>



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colorette	2.0.16	<a href="#">MIT License</a>
colors/colors	1.5.0	<a href="#">MIT License</a>
combined-stream	1.0.8	<a href="#">MIT License</a>
commander	2.20.3	<a href="#">MIT License</a>
commander	5.1.0	<a href="#">MIT License</a>
common-tags	1.8.2	<a href="#">MIT License</a>
comondir	1.0.1	<a href="#">MIT License</a>
concat-map	0.0.1	<a href="#">MIT License</a>
console-control-strings	1.1.0	<a href="#">ISC License</a>
convert-source-map	1.8.0	<a href="#">MIT License</a>
core-js	3.21.1	<a href="#">MIT License</a>
core-js-compat	3.21.1	<a href="#">MIT License</a>
core-util-is	1.0.2	<a href="#">MIT License</a>
cosmiconfig	6.0.0	<a href="#">MIT License</a>
cpprest	2.10.18	<a href="#">MIT License</a>
cppzmq	4.7.1	<a href="#">MIT License</a>
create-require	1.1.1	<a href="#">MIT License</a>
cross-spawn	7.0.3	<a href="#">MIT License</a>
cssom	0.3.8	<a href="#">MIT License</a>
cssom	0.4.4	<a href="#">MIT License</a>
cssstyle	2.3.0	<a href="#">MIT License</a>
curl	7.73.0.0	<a href="#">curl License</a>
curl	7.82.0.0	<a href="#">curl License</a>
curl	7.82.0	<a href="#">curl License</a>
Curl	7.87.0	<a href="#">curl License</a>
cypress	12.7.0	<a href="#">MIT License</a>
cypress/request	2.88.11	<a href="#">Apache License 2.0</a>
cypress/schematic	2.5.0	<a href="#">MIT License</a>
cypress/webpack-preprocessor	5.17.0	<a href="#">MIT License</a>
cypress/xvfb	1.2.4	<a href="#">MIT License</a>

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dashdash	1.14.1	<a href="#">MIT License</a>
data-urls	2.0.0	<a href="#">MIT License</a>
dayjs	1.11.7	<a href="#">MIT License</a>
dbus	1.14.8	<a href="#">Academic Free License v2.1 OR GPL-2.0-or-later License</a>
debug	3.2.7	<a href="#">MIT License</a>
debug	4.3.3	<a href="#">MIT License</a>
debug	4.3.4	<a href="#">MIT License</a>
decamelize	1.2.0	<a href="#">MIT License</a>
decimal.js	10.3.1	<a href="#">MIT License</a>
dedent	0.7.0	<a href="#">MIT License</a>
deep-is	0.1.4	<a href="#">MIT License</a>
deepmerge	4.2.2	<a href="#">MIT License</a>
defaults	1.0.3	<a href="#">MIT License</a>
define-lazy-prop	2.0.0	<a href="#">MIT License</a>
define-properties	1.1.3	<a href="#">MIT License</a>
delayed-stream	1.0.0	<a href="#">MIT License</a>
delegates	1.0.0	<a href="#">MIT License</a>
depd	1.1.2	<a href="#">MIT License</a>
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dfu-programmer	0.7.1	<a href="#">GPL-2.0-only License</a>
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dlt-daemon	2.18.8+2.18.9git AUTOINC +6a3bd901d8	<a href="#">MPL-2.0 License</a>
dmidecode	3.3	<a href="#">GPL-2.0-only License</a>
doctrine	3.0.0	<a href="#">Apache License 2.0</a>
domexception	2.0.1	<a href="#">MIT License</a>
dotenv	10.0.0	<a href="#">BSD 2-clause "Simplified" License</a>
double-conversion (V8 project)	unspecific	<a href="#">BSD 3-clause "New" or "Revised" License</a>

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e2fsprogs	1.46.1	GPL-2.0-only License AND LGPL-2.0-only License AND BSD 3-Clause License AND MIT License
e2fsprogs	1.46.5	GPL-2.0-only License AND LGPL-2.0-only License AND BSD 3-Clause License AND MIT License
ecc-jsbn	0.1.2	<a href="#">MIT License</a>
Eigen	3.4.0	<a href="#">Mozilla Public License 2.0</a>
ejs	3.1.8	<a href="#">Apache License 2.0</a>
electron-to-chromium	1.4.92	<a href="#">ISC License</a>
elfutils	0.186	GPL-2.0-only License AND GPL-2.0-or-later License AND LGPL-3.0-or-later License AND GPL-3.0-or-later License
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emojis-list	3.0.0	<a href="#">MIT License</a>
encoding	0.1.13	<a href="#">MIT License</a>
encodings	1.0.6	Public Domain
end-of-stream	1.4.4	<a href="#">MIT License</a>
enhanced-resolve	5.9.2	<a href="#">MIT License</a>
enquirer	2.3.6	<a href="#">MIT License</a>
env-paths	2.2.1	<a href="#">MIT License</a>
err-code	2.0.3	<a href="#">MIT License</a>
error-ex	1.3.2	<a href="#">MIT License</a>
es-module-lexer	0.9.3	<a href="#">MIT License</a>
escalade	3.1.1	<a href="#">MIT License</a>
escape-string-regexp	1.0.5	<a href="#">MIT License</a>

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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
extsprintf	1.3.0	MIT License

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fast-glob	3.2.7	<a href="#">MIT License</a>
fast-json-stable-stringify	2.1.0	<a href="#">MIT License</a>
fast-levenshtein	2.0.6	<a href="#">MIT License</a>
fastq	1.13.0	<a href="#">ISC License</a>
fb-watchman	2.0.1	<a href="#">Apache License 2.0</a>
fd-slicer	1.1.0	<a href="#">MIT License</a>
figures	3.2.0	<a href="#">MIT License</a>
file-entry-cache	6.0.1	<a href="#">MIT License</a>
file-saver	2.0.5	<a href="#">MIT License</a>
filelist	1.0.4	<a href="#">Apache License 2.0</a>
fill-range	7.0.1	<a href="#">MIT License</a>
find-cache-dir	3.3.2	<a href="#">MIT License</a>
find-up	4.1.0	<a href="#">MIT License</a>
flashrom	1.2	<a href="#">GPL-2.0-or-later License</a>
flat	5.0.2	<a href="#">BSD 3-clause "New" or "Revised" License</a>
flat-cache	3.0.4	<a href="#">MIT License</a>
flatbuffers	1.12.0	<a href="#">Apache License 2.0</a>
flatted	3.2.5	<a href="#">ISC License</a>
fmt	8.1.1	<a href="#">MIT License with optional exception</a>
focus-visible	5.2.0	<a href="#">W3C Software Notice and License (2002-12-31)</a>
font-alias	1.0.4	<a href="#">MIT License</a>
font-util	1.3.3	MIT License AND MIT License AND BSD 4-Clause License AND BSD 2-Clause License
fontconfig	2.13.1	MIT License AND MIT License AND Public Domain
forever-agent	0.6.1	<a href="#">Apache License 2.0</a>
fork-ts-checker-webpack-plugin	6.2.10	<a href="#">MIT License</a>
form-data	2.3.3	<a href="#">MIT License</a>
form-data	3.0.1	<a href="#">MIT License</a>

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FreeRTOS	10.0.1	<a href="#">MIT License</a>
FreeRTOS	10.5.0	<a href="#">MIT License</a>
freetype	2.11.1	Freetype Project License OR GPL-2.0-or-later License
fs-extra	9.1.0	<a href="#">MIT License</a>
fs-minipass	2.1.0	<a href="#">ISC License</a>
fs-monkey	1.0.3	<a href="#">The Unlicense</a>
fs.realpath	1.0.0	<a href="#">ISC License</a>
function-bind	1.1.1	<a href="#">MIT License</a>
functional-red-black-tree	1.0.1	<a href="#">MIT License</a>
fuse	2.9.9	GPL-2.0-only License AND LGPL-2.0-only License
gar/promisify	1.1.3	<a href="#">MIT License</a>
gauge	4.0.3	<a href="#">ISC License</a>
gcc-runtime	11.4.0	<a href="#">GNU General Public License v3.0 WITH GCC Runtime Library exception 3.1</a>
gdb	11.2	GPL-2.0-only License AND GPL-3.0-only License AND LGPL-2.0-only License AND LGPL-3.0-only License
gensync	1.0.0-beta.2	<a href="#">MIT License</a>
get-caller-file	2.0.5	<a href="#">ISC License</a>
get-intrinsic	1.1.1	<a href="#">MIT License</a>
get-package-type	0.1.0	<a href="#">MIT License</a>
get-stream	5.2.0	<a href="#">MIT License</a>
get-stream	6.0.1	<a href="#">MIT License</a>
getos	3.2.1	<a href="#">MIT License</a>
getpass	0.1.7	<a href="#">MIT License</a>
glib-2.0	2.72.3	LGPL-2.1-or-later License AND BSD 3-Clause License AND Public Domain
glibc	2.35	GPL-2.0-only License AND LGPL-2.1-only License

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glob	7.1.4	ISC License
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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
gnutils	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
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
has-unicode	2.0.1	ISC License

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hdf5	1.14.1	<a href="#">HDF5 License</a>
hosted-git-info	4.1.0	<a href="#">ISC License</a>
html-encoding-sniffer	2.0.1	<a href="#">MIT License</a>
html-escaper	2.0.2	<a href="#">MIT License</a>
htop	3.1.2	GPL-2.0-only License
http-cache-semantics	4.1.0	<a href="#">BSD 2-clause "Simplified" License</a>
http-proxy-agent	4.0.1	<a href="#">MIT License</a>
http-proxy-agent	5.0.0	<a href="#">MIT License</a>
http-signature	1.3.6	<a href="#">MIT License</a>
https-proxy-agent	5.0.0	<a href="#">MIT License</a>
human-signals	1.1.1	<a href="#">Apache License 2.0</a>
human-signals	2.1.0	<a href="#">Apache License 2.0</a>
humanize-ms	1.2.1	<a href="#">MIT License</a>
humanwhocodes/config-array	0.9.5	<a href="#">Apache License 2.0</a>
humanwhocodes/object-schema	1.2.1	<a href="#">BSD 3-clause "New" or "Revised" License</a>
iconv-lite	0.4.24	<a href="#">MIT License</a>
iconv-lite	0.6.3	<a href="#">MIT License</a>
icu	70.1	ICU License
identity-obj-proxy	3.0.0	<a href="#">MIT License</a>
ieee754	1.2.1	<a href="#">BSD 3-clause "New" or "Revised" License</a>
ifplugd	0.28	GPL-2.0-only License
ignore	5.2.0	<a href="#">MIT License</a>
ignore-walk	4.0.1	<a href="#">ISC License</a>
imlib2	1.7.1	Imlib2 License
import-fresh	3.3.0	<a href="#">MIT License</a>
imurmurhash	0.1.4	<a href="#">MIT License</a>
indent-string	4.0.0	<a href="#">MIT License</a>
infer-owner	1.0.4	<a href="#">ISC License</a>
inflight	1.0.6	<a href="#">ISC License</a>



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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-extendable	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-instrument	5.1.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
istanbul-lib-report	3.0.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
istanbul-lib-source-maps	4.0.1	<a href="#">BSD 3-clause "New" or "Revised" License</a>
istanbul-reports	3.1.4	<a href="#">BSD 3-clause "New" or "Revised" License</a>
istanbuljs/load-nyc-config	1.1.0	<a href="#">ISC License</a>
istanbuljs/schema	0.1.3	<a href="#">MIT License</a>
jake	10.8.5	<a href="#">Apache License 2.0</a>
jansson	2.13.1	<a href="#">MIT License</a>
jasmine-marbles	0.8.4	<a href="#">MIT License</a>
jbig2dec	0.17	<a href="#">AGPL-3.0-or-later License</a>
jest-circus	27.5.1	<a href="#">MIT License</a>
jest-config	27.2.2	<a href="#">MIT License</a>
jest-diff	27.5.1	<a href="#">MIT License</a>
jest-docblock	27.5.1	<a href="#">MIT License</a>
jest-each	27.5.1	<a href="#">MIT License</a>
jest-environment-jsdom	27.5.1	<a href="#">MIT License</a>
jest-environment-node	27.5.1	<a href="#">MIT License</a>
jest-get-type	27.5.1	<a href="#">MIT License</a>
jest-haste-map	27.5.1	<a href="#">MIT License</a>
jest-jasmine2	27.5.1	<a href="#">MIT License</a>
jest-leak-detector	27.5.1	<a href="#">MIT License</a>
jest-matcher-utils	27.5.1	<a href="#">MIT License</a>
jest-message-util	27.5.1	<a href="#">MIT License</a>
jest-mock	27.5.1	<a href="#">MIT License</a>
jest-pnp-resolver	1.2.2	<a href="#">MIT License</a>
jest-regex-util	27.5.1	<a href="#">MIT License</a>
jest-resolve	27.2.2	<a href="#">MIT License</a>
jest-resolve	27.5.1	<a href="#">MIT License</a>

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jest-runner	27.5.1	MIT License
jest-runtime	27.5.1	MIT License
jest-serializer	27.5.1	MIT License
jest-snapshot	27.5.1	MIT License
jest-util	27.2.0	MIT License
jest-util	27.5.1	MIT License
jest-validate	27.5.1	MIT License
jest-worker	27.5.1	MIT License
jest/console	27.5.1	MIT License
jest/environment	27.5.1	MIT License
jest/fake-timers	27.5.1	MIT License
jest/globals	27.5.1	MIT License
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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json-c	0.15	MIT License
json-parse-better-errors	1.0.2	<a href="#">MIT License</a>
json-parse-even-better-errors	2.3.1	<a href="#">MIT License</a>
json-schema	0.4.0	((AFL-2.1 OR <a href="#">BSD 3-clause "New" or "Revised" License</a> )
json-schema-traverse	0.4.1	<a href="#">MIT License</a>
json-schema-traverse	1.0.0	<a href="#">MIT License</a>
json-stable-stringify-without-jsonify	1.0.1	<a href="#">MIT License</a>
json-stringify-safe	5.0.1	<a href="#">ISC License</a>
json5	1.0.1	<a href="#">MIT License</a>
json5	2.2.3	<a href="#">MIT License</a>
jsonc-parser	3.0.0	<a href="#">MIT License</a>
jsonfile	6.1.0	<a href="#">MIT License</a>
jsonparse	1.3.1	<a href="#">MIT License</a>
jsprim	2.0.2	<a href="#">MIT License</a>
kernel-module-siggenpci	1.0+git	GPL-2.0-only License
kind-of	6.0.3	<a href="#">MIT License</a>
kissfft	1.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
kmod	29	GPL-2.0-or-later License AND LGPL-2.1-or-later License
krb5	1.17.2	MIT License
lazy-ass	1.6.0	<a href="#">MIT License</a>
lcms	2.13.1	MIT License
leven	3.1.0	<a href="#">MIT License</a>
levn	0.3.0	<a href="#">MIT License</a>
levn	0.4.1	<a href="#">MIT License</a>
libarchive	3.6.2	BSD 2-Clause License
libcap	2.66	BSD 3-Clause License OR GPL-2.0-only License

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libedit	20210910-3.1	BSD 3-Clause License
libepoxy	1.5.10	MIT License
libev	4.33	BSD 2-Clause License OR GPL-2.0-or-later License
libevdev	1.12.1	MIT License
libevent	2.1.12	BSD 3-Clause License AND MIT License
libffi	3.4.4	MIT License
libfontenc	1.1.4	MIT License
libftdi	1.4	LGPL-2.1-only License AND GPL-2.0-only License
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libgcrypt	1.9.4	GPL-2.0-or-later License AND LGPL-2.1-or-later License AND GPL-3.0-or-later License
libglu	9.0.2	MIT License
libgpg-error	1.44	GPL-2.0-or-later License AND LGPL-2.1-or-later License
libice	1.0.10	MIT License
libidn2	2.3.2	(( <a href="#">IGPL-2.0-or-later License</a> OR <a href="#">LGPL-3.0-only License</a> )) AND <a href="#">GPL-3.0-or-later License</a> AND <a href="#">Unicode Data Files and Software License (2016)</a>
libinput	1.19.4	MIT License
libjpeg-turbo	2.1.5.1	BSD 3-Clause License
libldb	2.3.4	<a href="#">LGPL-3.0-or-later License</a> AND <a href="#">LGPL-2.1-or-later License</a> AND <a href="#">GPL-3.0-or-later License</a>
libmcrypt	2.5.8	<a href="#">LGPL-2.1-only License</a>
libnghttp2	1.47.0	<a href="#">MIT License</a>
libnl	3.5.0	<a href="#">LGPL-2.1-only License</a>
libnsl2	2.0.0	<a href="#">LGPL-2.1-only License</a>

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libpcre	8.45	BSD 3-Clause License
libpcre2	10.40	BSD 3-Clause License
libpng	1.6.39	libpng License
libsgp4	1.0	<a href="#">Apache License 2.0</a>
libsm	1.2.3	MIT License
libsodium	1.0.18	ISC License
libtalloc	2.3.3	LGPL-3.0-or-later License AND GPL-3.0-or-later License
libtdb	1.4.3	LGPL-3.0-or-later License AND GPL-3.0-or-later License
libtevent	0.10.2	LGPL-3.0-or-later License
libtirpc	1.3.2	BSD 3-Clause License
libunistring	1.0	LGPL-3.0-or-later License OR GPL-2.0-or-later License
libunwind	1.6.2	MIT License
liburcu	0.13.2	LGPL-2.1-or-later License AND MIT License
libusb1	1.0.26	LGPL-2.1-or-later License
libuv	1.44.2	MIT License
libvncserver	0.9.13	GPL-2.0-only License
libwebsockets	4.2.2	MIT License AND zlib License AND BSD 3-Clause License AND <a href="#">Apache License 2.0</a>
libx11	1.7.3.1	MIT License AND MIT License AND BSD-1-Clause License AND Historical Permission Notice and Disclaimer AND HPND-sell-variant License
libxau	1.0.9	MIT License
libxaw	1.0.14	MIT License
libxcb	1.14	MIT License
libxcomposite	0.4.5	MIT License
libxcrypt	4.4.33	LGPL-2.1-only License

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libxdamage	1.1.5	MIT License
libxdmcp	1.1.3	MIT License
libxext	1.3.4	MIT License
libxfixed	6.0.0	MIT License
libxfont2	2.0.5	MIT License AND MIT License AND BSD 4-Clause License AND BSD 2-Clause License
libxft	2.3.4	MIT License
libxi	1.8	MIT License AND MIT License AND
libxinerama	1.1.4	MIT License
libxkbcommon	1.4.1	MIT License AND MIT License AND
libxkbfile	1.1.0	MIT License
libxml2	2.9.14	MIT License
libxmu	1.1.3	MIT License AND MIT License AND
libxpm	3.5.17	MIT License
libxrandr	1.5.2	MIT License
libxrender	0.9.10	MIT License
libxshmfence	1.3	Historical Permission Notice and Disclaimer
libxt	1.2.1	MIT License AND MIT License AND
libxtst	1.2.3	MIT License
libxxf86vm	1.1.4	MIT License
lines-and-columns	1.2.4	<a href="#">MIT License</a>
linux	5.10	GPL-2.0-only License

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linux-firmware-amdgpu	1.0	Firmware-amd License
linux-firmware-radeon	1.0	Firmware-amd License
listr2	3.14.0	<a href="#">MIT License</a>
lit	2.4.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lit-element	3.2.2	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lit-html	2.4.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lit-labs/react	1.0.9	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lit-labs/scoped-registry-mixin	1.0.1	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lit/reactive-element	1.4.1	<a href="#">BSD 3-clause "New" or "Revised" License</a>
LittleGV	7.0.1	<a href="#">MIT License</a>
llvm	13.0.1	<a href="#">Apache License 2.0 WITH LLVM Exception</a>
loader-runner	4.2.0	<a href="#">MIT License</a>
loader-utils	1.4.0	<a href="#">MIT License</a>

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locate-path	5.0.0	<a href="#">MIT License</a>
lodash	4.17.21	<a href="#">MIT License</a>
lodash.debounce	4.0.8	<a href="#">MIT License</a>
lodash.merge	4.6.2	<a href="#">MIT License</a>
lodash.once	4.1.1	<a href="#">MIT License</a>
log-symbols	4.1.0	<a href="#">MIT License</a>
log-update	4.0.0	<a href="#">MIT License</a>
lpmkit-udev-common	1.0	MIT License
lru-cache	6.0.0	<a href="#">ISC License</a>
lru-cache	7.7.1	<a href="#">ISC License</a>
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	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lzo	2.10	GPL-2.0-or-later License
magic-string	0.25.7	<a href="#">MIT License</a>
make-dir	3.1.0	<a href="#">MIT License</a>
make-error	1.3.6	<a href="#">ISC License</a>
make-fetch-happen	10.0.6	<a href="#">ISC License</a>
make-fetch-happen	9.1.0	<a href="#">ISC License</a>
makeerror	1.0.12	<a href="#">BSD 3-clause "New" or "Revised" License</a>
mbed TLS	2.16.1	<a href="#">Apache License 2.0</a>
mbed TLS	3.2.1	<a href="#">Apache License 2.0</a>
MD4 (RFC 1320) Message-Digest Algorithm	unspecific	<a href="#">MD4 license</a>
MD5 (RFC 1321) Message-Digest Algorithm	unspecific	<a href="#">RSA Message-Digest License</a>
memfs	3.4.1	<a href="#">The Unlicense</a>
Memory-Mapped File C++	2017-01-31	<a href="#">Mozilla Public License 2.0</a>
merge-stream	2.0.0	<a href="#">MIT License</a>

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merge2	1.4.1	<a href="#">MIT License</a>
mesa	22.0.3	MIT License
mhdfs	0.1.39+git	GPL-3.0-or-later License
micromatch	4.0.4	<a href="#">MIT License</a>
mime-db	1.52.0	<a href="#">MIT License</a>
mime-types	2.1.35	<a href="#">MIT License</a>
mimic-fn	2.1.0	<a href="#">MIT License</a>
minimatch	3.0.4	<a href="#">ISC License</a>
minimatch	5.1.6	<a href="#">ISC License</a>
minimist	1.2.6	<a href="#">MIT License</a>
minipass	3.1.6	<a href="#">ISC License</a>
minipass-collect	1.0.2	<a href="#">ISC License</a>
minipass-fetch	1.4.1	<a href="#">MIT License</a>
minipass-fetch	2.0.3	<a href="#">MIT License</a>
minipass-flush	1.0.5	<a href="#">ISC License</a>
minipass-json-stream	1.0.1	<a href="#">MIT License</a>
minipass-pipeline	1.2.4	<a href="#">ISC License</a>
minipass-sized	1.0.3	<a href="#">ISC License</a>
minizip	2.9.3	<a href="#">zlib License</a>
minizip-ng	3.0.6	<a href="#">zlib License</a>
minizlib	2.1.2	<a href="#">MIT License</a>
mkdirp	1.0.4	<a href="#">MIT License</a>
mkfontscale	1.2.2	MIT License
mosquitto	2.0.14	EPL-2.0 License OR EDL-1.0 License
ms	2.1.2	<a href="#">MIT License</a>
mtdev	1.1.6	MIT License
mtrace-ng	1.0	GPL-2.0-only License
mupdf	1.15.0	AGPL-3.0-only License
musl-libc	1.1.16	MIT License
mute-stream	0.0.8	<a href="#">ISC License</a>
natural-compare	1.4.0	<a href="#">MIT License</a>

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ncurses	6.3+20220423	MIT License
ncurses	6.3	MIT License
negotiator	0.6.3	<a href="#">MIT License</a>
neo-async	2.6.2	<a href="#">MIT License</a>
net-snmp	5.9.3	BSD 3-Clause License AND MIT License
netbase	6.3	GPL-2.0-only License
nettle	3.7.3	LGPL-3.0-or-later License OR GPL-2.0-or-later License
nfs-utils	2.6.1	MIT License AND GPL-2.0-or-later License AND BSD 3-Clause License
nghttp2	1.47.0	MIT License
Nghttp2: HTTP/2 C Library	1.39.90	<a href="#">MIT License</a>
nginx	1.20.1	BSD 2-Clause License
ngrx/store	13.2.0	<a href="#">MIT License</a>
ngx-translate/ core	13.0.0	<a href="#">MIT License</a>
ngx-translate/ http-loader	6.0.0	<a href="#">MIT License</a>
nlohmann_json	3.11.2	<a href="#">MIT License</a>
node-addon-api	3.2.1	<a href="#">MIT License</a>
node-gyp	8.4.1	<a href="#">MIT License</a>
node-gyp-build	4.3.0	<a href="#">MIT License</a>
node-int64	0.4.0	<a href="#">MIT License</a>
node-releases	2.0.2	<a href="#">MIT License</a>
nodelib/fs.scan- dir	2.1.5	<a href="#">MIT License</a>
nodelib/fs.stat	2.0.5	<a href="#">MIT License</a>
nodelib/fs.walk	1.2.8	<a href="#">MIT License</a>
nopt	5.0.0	<a href="#">ISC License</a>
normalize-path	3.0.0	<a href="#">MIT License</a>
NotoSansUI- Bold	1.06	<a href="#">SIL Open Font License 1.1</a>
NotoSansUI-Bol- dItalic	1.06	<a href="#">SIL Open Font License 1.1</a>

Package	Version	License
NotoSansUI-Italic	1.06	<a href="#">SIL Open Font License 1.1</a>
NotoSansUI-Regular	1.06	<a href="#">SIL Open Font License 1.1</a>
novnc	1.3.0+git	MPL-2.0 License AND BSD 2-Clause License AND BSD 3-Clause License AND <a href="#">SIL Open Font License 1.1</a> AND CC-BY-3.0 License AND MIT License
npm-bundled	1.1.2	<a href="#">ISC License</a>
npm-install-checks	4.0.0	<a href="#">BSD 2-clause "Simplified" License</a>
npm-normalize-package-bin	1.0.1	<a href="#">ISC License</a>
npm-package-arg	8.1.5	<a href="#">ISC License</a>
npm-packlist	3.0.0	<a href="#">ISC License</a>
npm-pick-manifest	6.1.1	<a href="#">ISC License</a>
npm-registry-fetch	12.0.2	<a href="#">ISC License</a>
npm-run-path	4.0.1	<a href="#">MIT License</a>
npmcli/fs	1.1.1	<a href="#">ISC License</a>
npmcli/fs	2.1.0	<a href="#">ISC License</a>
npmcli/git	2.1.0	<a href="#">ISC License</a>
npmcli/installed-package-contents	1.0.7	<a href="#">ISC License</a>
npmcli/move-file	1.1.2	<a href="#">MIT License</a>
npmcli/node-gyp	1.0.3	<a href="#">ISC License</a>
npmcli/promise-spawn	1.3.2	<a href="#">ISC License</a>
npmcli/run-script	2.0.0	<a href="#">ISC License</a>
npmlog	6.0.1	<a href="#">ISC License</a>
nrwl/angular	13.9.4	<a href="#">MIT License</a>
nrwl/cli	13.9.4	<a href="#">MIT License</a>
nrwl/cypress	13.9.4	<a href="#">MIT License</a>
nrwl/devkit	13.9.4	<a href="#">MIT License</a>

Package	Version	License
nrwl/jest	13.9.4	<a href="#">MIT License</a>
nrwl/linter	13.9.4	<a href="#">MIT License</a>
nrwl/storybook	13.9.4	<a href="#">MIT License</a>
nrwl/tao	13.9.4	<a href="#">MIT License</a>
nrwl/workspace	13.9.4	<a href="#">MIT License</a>
nspr	4.29	GPL-2.0-only License OR MPL-2.0 License OR LGPL-2.1-only License
nss	3.74	(IMPL-2.0 License AND MIT License)) OR (IMPL-2.0 License AND GPL-2.0-or-later License AND MIT License)) OR (IMPL-2.0 License AND LGPL-2.1-or-later License AND MIT License)) OR
nwsapi	2.2.0	<a href="#">MIT License</a>
nx	13.9.4	<a href="#">MIT License</a>
object-inspect	1.12.3	<a href="#">MIT License</a>
object-keys	1.1.1	<a href="#">MIT License</a>
object.assign	4.1.2	<a href="#">MIT License</a>
once	1.4.0	<a href="#">ISC License</a>
onetime	5.1.2	<a href="#">MIT License</a>
open	8.4.0	<a href="#">MIT License</a>
openjpeg	2.4.0	BSD 2-Clause License
OpenSSL	1.1.1m	<a href="#">OpenSSL License</a>
OpenSSL	1.1.1n	<a href="#">OpenSSL License</a>
OpenSSL	3.0.0	<a href="#">Apache License 2.0</a>
openssl	3.0.12	<a href="#">Apache License 2.0</a>
OpenSSL cryptographic library	3.0.7	<a href="#">Apache License 2.0</a>
optionator	0.8.3	<a href="#">MIT License</a>
optionator	0.9.1	<a href="#">MIT License</a>
ora	5.4.1	<a href="#">MIT License</a>
os-release	1.0	MIT License
os-tmpdir	1.0.2	<a href="#">MIT License</a>

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ospath	1.2.2	MIT License
p-limit	2.3.0	MIT License
p-locate	4.1.0	MIT License
p-map	4.0.0	MIT License
p-try	2.2.0	MIT License
pacote	12.0.3	ISC License
paho-mqtt-c	1.3.9	Eclipse Public License - v 2.0
paho-mqtt-cpp	1.2.0	Eclipse Public License - v 2.0
parcel/watcher	2.0.4	MIT License
parent-module	1.0.1	MIT License
parse-json	5.2.0	MIT License
parse5	5.1.1	MIT License
parse5	6.0.1	MIT License
path-exists	4.0.0	MIT License
path-is-absolute	1.0.1	MIT License
path-key	3.1.1	MIT License
path-parse	1.0.7	MIT License
path-type	4.0.0	MIT License
pciutils	3.7.0	GPL-2.0-or-later License
PCRE2 library	10.40	BSD 3-clause "New" or "Revised" License
pcsc-lite	1.9.0	BSD 3-Clause License AND GPL-3.0-or-later License
pend	1.2.0	MIT License
performance-now	2.1.0	MIT License
phenomnomnominal/tsquery	4.1.1	MIT License
php	8.1.16	PHP License v3.0
picocolors	1.0.0	ISC License
picomatch	2.3.1	MIT License
pify	2.3.0	MIT License
pirates	4.0.5	MIT License
pixman	0.40.0	MIT License AND Public Domain
pkg-dir	4.2.0	MIT License

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POCO C++ libraries	1.12.4	<a href="#">Boost Software License 1.0</a>
popt	1.18	MIT License
prelude-ls	1.1.2	<a href="#">MIT License</a>
prelude-ls	1.2.1	<a href="#">MIT License</a>
prettier	2.6.0	<a href="#">MIT License</a>
pretty-bytes	5.6.0	<a href="#">MIT License</a>
pretty-format	27.5.1	<a href="#">MIT License</a>
primeicons	4.1.0	<a href="#">MIT License</a>
primeng	11.4.5	<a href="#">MIT License</a>
promise-inflight	1.0.1	<a href="#">ISC License</a>
promise-retry	2.0.1	<a href="#">MIT License</a>
protobuf	3.19.6	BSD 3-Clause License
proxy-from-env	1.0.0	<a href="#">MIT License</a>
psl	1.8.0	<a href="#">MIT License</a>
Public Domain JSON Parser for C	unspecific	<a href="#">The Unlicense</a>
pugixml	1.11	<a href="#">MIT License</a>
pump	3.0.0	<a href="#">MIT License</a>
punycode	2.1.1	<a href="#">MIT License</a>
pure-ftpd	1.0.47	BSD Zero Clause License
qrencode	4.0.2	<a href="#">GNU Lesser General Public License v2.1</a>
qs	6.10.4	<a href="#">BSD 3-clause "New" or "Revised" License</a>
queue-microtask	1.2.3	<a href="#">MIT License</a>
randombytes	2.1.0	<a href="#">MIT License</a>
rapidjson	1.1.0	<a href="#">MIT License</a>
RapidXml XML parser	1.13	<a href="#">Boost Software License 1.0</a>
react-is	17.0.2	<a href="#">MIT License</a>
read-package-json-fast	2.0.3	<a href="#">ISC License</a>
readable-stream	3.6.0	<a href="#">MIT License</a>
readdirp	3.6.0	<a href="#">MIT License</a>
readline	8.1.2	GPL-3.0-or-later License
regenerate	1.4.2	<a href="#">MIT License</a>



Package	Version	License
regenerate-uni-code-properties	10.0.1	<a href="#">MIT License</a>
regenerator-runtime	0.13.9	<a href="#">MIT License</a>
regenerator-transform	0.14.5	<a href="#">MIT License</a>
regexp	3.2.0	<a href="#">MIT License</a>
regexpu-core	5.0.1	<a href="#">MIT License</a>
regjsgen	0.6.0	<a href="#">MIT License</a>
regjsparser	0.8.4	<a href="#">BSD 2-clause "Simplified" License</a>
remez-exchange	1.0	<a href="#">GNU Lesser General Public License v3.0</a>
request-progress	3.0.0	<a href="#">MIT License</a>
require-directory	2.1.1	<a href="#">MIT License</a>
require-from-string	2.0.2	<a href="#">MIT License</a>
require-main-file-name	2.0.0	<a href="#">ISC License</a>
resolve	1.22.0	<a href="#">MIT License</a>
resolve-from	4.0.0	<a href="#">MIT License</a>
resolve-from	5.0.0	<a href="#">MIT License</a>
resolve.exports	1.1.0	<a href="#">MIT License</a>
restore-cursor	3.1.0	<a href="#">MIT License</a>
retry	0.12.0	<a href="#">MIT License</a>
reusify	1.0.4	<a href="#">MIT License</a>
rfdc	1.3.0	<a href="#">MIT License</a>
rgb	1.0.6	<a href="#">MIT License</a>
rimraf	3.0.2	<a href="#">ISC License</a>
Roboto-Bold	2.001150; 2014	<a href="#">Apache License 2.0</a>
Roboto-BoldItalic	2.001150; 2014	<a href="#">Apache License 2.0</a>
Roboto-Italic	2.001101; 2014	<a href="#">Apache License 2.0</a>
Roboto-Medium	2.001152; 2014	<a href="#">Apache License 2.0</a>
Roboto-Medium-Italic	2.001152; 2014	<a href="#">Apache License 2.0</a>
Roboto-Regular	2.001101; 2014	<a href="#">Apache License 2.0</a>
RobotoCondensed-Bold	2.001240; 2014	<a href="#">Apache License 2.0</a>

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RobotoCon- densed-BoldItalic	2.001240; 2014	<a href="#">Apache License 2.0</a>
RobotoCon- densed-Italic	2.001240; 2014	<a href="#">Apache License 2.0</a>
RobotoCon- densed-Regular	2.001201; 2014	<a href="#">Apache License 2.0</a>
RobotoMono- Bold	2.000986; 2015	<a href="#">Apache License 2.0</a>
RobotoMono- BoldItalic	2.000986; 2015	<a href="#">Apache License 2.0</a>
RobotoMono- Italic	2.000986; 2015	<a href="#">Apache License 2.0</a>
RobotoMono- Light	2.000986; 2015	<a href="#">Apache License 2.0</a>
RobotoMono- LightItalic	2.000986; 2015	<a href="#">Apache License 2.0</a>
RobotoMono- Regular	2.000986; 2015	<a href="#">Apache License 2.0</a>
rpcbind	1.2.6	BSD 3-Clause License
rs_daeix	2.2.0	<a href="#">Apache License 2.0</a>
rsmic	git	GPL-2.0-only License
rssh	2.3.4	BSD 2-Clause License
run-async	2.4.1	<a href="#">MIT License</a>
run-parallel	1.2.0	<a href="#">MIT License</a>
rxjs	6.6.7	<a href="#">Apache License 2.0</a>
rxjs	7.8.0	<a href="#">Apache License 2.0</a>
rxjs-for-await	0.0.2	<a href="#">MIT License</a>
safe-buffer	5.1.2	<a href="#">MIT License</a>
safe-buffer	5.2.1	<a href="#">MIT License</a>
safer-buffer	2.1.2	<a href="#">MIT License</a>
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)	<a href="#">MIT License</a>
saxes	5.0.1	<a href="#">ISC License</a>
schema-utils	2.7.0	<a href="#">MIT License</a>

Package	Version	License
schema-utils	3.1.1	<a href="#">MIT License</a>
schematics/ angular	13.2.6	<a href="#">MIT License</a>
semver	6.3.0	<a href="#">ISC License</a>
semver	7.0.0	<a href="#">ISC License</a>
semver	7.3.4	<a href="#">ISC License</a>
semver	7.3.5	<a href="#">ISC License</a>
Sentry-Native	0.6.1	<a href="#">MIT License</a>
serialize-java- script	6.0.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
set-blocking	2.0.0	<a href="#">ISC License</a>
setxkbmap	1.3.2	<a href="#">MIT License</a>
shadow	4.11.1	<a href="#">BSD 3-Clause License</a>
shadow- securetty	4.6	<a href="#">MIT License</a>
shallow-clone	3.0.1	<a href="#">MIT License</a>
shebang-com- mand	2.0.0	<a href="#">MIT License</a>
shebang-regex	3.0.0	<a href="#">MIT License</a>
side-channel	1.0.4	<a href="#">MIT License</a>
signal-exit	3.0.7	<a href="#">ISC License</a>
sinonjs/ commons	1.8.3	<a href="#">BSD 3-clause "New" or "Revised" License</a>
sinonjs/fake- timers	8.1.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
slash	3.0.0	<a href="#">MIT License</a>
slice-ansi	3.0.0	<a href="#">MIT License</a>
slice-ansi	4.0.0	<a href="#">MIT License</a>
smart-buffer	4.2.0	<a href="#">MIT License</a>
smartmontools	7.3	<a href="#">GPL-2.0-only License</a>
smwhostpci-mod	0.1	<a href="#">GPL-2.0-only License</a>
socks	2.6.2	<a href="#">MIT License</a>
socks-proxy- agent	6.1.1	<a href="#">MIT License</a>
source-map	0.6.1	<a href="#">BSD 3-clause "New" or "Revised" License</a>
source-map	0.7.3	<a href="#">BSD 3-clause "New" or "Revised" License</a>

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source-map-support	0.5.21	MIT License
sourcemap-codec	1.4.8	MIT License
sprintf-js	1.0.3	BSD 3-clause "New" or "Revised" License
SQLite	3.38.1	SQLITE Copyright Notice
sqlite3	3.38.5	Public Domain
sshpk	1.17.0	MIT License
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

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swc/core-linux-x64-gnu	1.2.160	Apache-2.0 AND <a href="#">MIT License</a>
swc/core-linux-x64-musl	1.2.160	Apache-2.0 AND <a href="#">MIT License</a>
symbol-observable	4.0.0	<a href="#">MIT License</a>
symbol-tree	3.2.4	<a href="#">MIT License</a>
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	<a href="#">MIT License</a>
tapable	2.2.1	<a href="#">MIT License</a>
tar	6.1.11	<a href="#">ISC License</a>
tcp-wrappers	7.6	BSD-1-Clause License
terminal-link	2.1.1	<a href="#">MIT License</a>
terser	5.12.1	<a href="#">BSD 2-clause "Simplified" License</a>
terser-webpack-plugin	5.3.1	<a href="#">MIT License</a>
test-exclude	6.0.0	<a href="#">ISC License</a>
text-table	0.2.0	<a href="#">MIT License</a>
throat	6.0.1	<a href="#">MIT License</a>
throttleit	1.0.0	<a href="#">MIT License</a>
through	2.3.8	<a href="#">MIT License</a>
tiff	4.3.0	BSD 2-Clause License
tmp	0.0.33	<a href="#">MIT License</a>
tmp	0.2.1	<a href="#">MIT License</a>
tmpl	1.0.5	<a href="#">BSD 3-clause "New" or "Revised" License</a>
to-fast-properties	2.0.0	<a href="#">MIT License</a>
to-regexp-range	5.0.1	<a href="#">MIT License</a>
tootallnate/once	1.1.2	<a href="#">MIT License</a>
tootallnate/once	2.0.0	<a href="#">MIT License</a>
tough-cookie	2.5.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
tough-cookie	4.0.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>

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tr46	2.1.0	<a href="#">MIT License</a>
Tray (cross platform tray icon library)	8dd1358b92562faf7c032cf5362fa97cbc7e13e9	<a href="#">MIT License</a>
ts-loader	9.2.8	<a href="#">MIT License</a>
ts-node	9.1.1	<a href="#">MIT License</a>
tsconfig-paths	3.14.1	<a href="#">MIT License</a>
tsconfig-paths-webpack-plugin	3.5.2	<a href="#">MIT License</a>
tslib	1.14.1	<a href="#">BSD Zero Clause License</a>
tslib	2.3.1	<a href="#">BSD Zero Clause License</a>
tunnel-agent	0.6.0	<a href="#">Apache License 2.0</a>
tweetnacl	0.14.5	<a href="#">The Unlicense</a>
type-check	0.3.2	<a href="#">MIT License</a>
type-check	0.4.0	<a href="#">MIT License</a>
type-detect	4.0.8	<a href="#">MIT License</a>
type-fest	0.20.2	<a href="#">((MIT OR Creative Commons Zero v1.0 Universal)</a>
type-fest	0.21.3	<a href="#">((MIT OR Creative Commons Zero v1.0 Universal)</a>
typedarray-to-buffer	3.1.5	<a href="#">MIT License</a>
types/babel__core	7.1.19	<a href="#">MIT License</a>
types/babel__generator	7.6.4	<a href="#">MIT License</a>
types/babel__template	7.4.1	<a href="#">MIT License</a>
types/babel__traverse	7.14.2	<a href="#">MIT License</a>
types/eslint	8.4.1	<a href="#">MIT License</a>
types/eslint-scope	3.7.3	<a href="#">MIT License</a>
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zeromq	4.3.4	LGPL-3.0-or-later License
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zlib	1.2.12	<a href="#">zlib License</a>
zlib	1.2.11	zlib License
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LLVM Team

University of Illinois at Urbana-Champaign

<http://llvm.org>

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Version 3.0, 18 August 2009

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## 3.12 GCC Runtime Library exception 3.1

### GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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```

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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"

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ARCore SDK

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Blackmagic DeckLink SDK - Mac

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Breakpad, An open-source multi-platform crash reportingsystem

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Chrome Custom Tabs - Example and Usage

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

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Chromium OS system API  
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CityHash

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

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Closure compiler

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

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

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

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d3

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dynamic annotations

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Emoji Segmenter

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

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Expat XML Parser

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

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FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to
FFmpeg to the GPL v3. ### Incompatible libraries There are certain libraries you can combine
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MPEG-4 VIDEO CODEC Conversion from gcc syntax to x264asm syntax with modifications by Christophe
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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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FlatBuffers

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google-glog's symbolization library

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google-jstemplate

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

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./test/eigen2/eigen2_svd.cpp ./test/eigen2/eigen2_mixingtypes.cpp ./test/eigen2/eigen2_qr.cpp
./test/eigen2/eigen2_cwiseop.cpp ./test/eigen2/eigen2_geometry_with_eigen2_prefix.cpp
./test/eigen2/eigen2_smallvectors.cpp ./test/eigen2/eigen2_commainitializer.cpp
./test/eigen2/eigen2_sparse_solvers.cpp ./test/eigen2/eigen2_hyperplane.cpp
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./test/eigen2/eigen2_parametrizedline.cpp ./test/eigen2/eigen2_lu.cpp ./test/eigen2/eigen2_ad
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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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./demos/mandelbrot/mandelbrot.cpp
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./demos/opengl/gpuhelper.cpp ./demos/opengl/quaternion_demo.cpp ./debug/gdb/printers.py
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./unsupported/Eigen/IterativeSolvers ./unsupported/Eigen/src/IterativeSolvers/DGMRES.h
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./unsupported/Eigen/src/KroneckerProduct/KroneckerTensorProduct.h
./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
./unsupported/Eigen/src/SVD/JacobiSVD.h ./unsupported/Eigen/src/SVD/BDCSVD.h
./unsupported/Eigen/src/SVD/SVDBase.h ./unsupported/Eigen/src/MatrixFunctions/MatrixFunction.h
./unsupported/Eigen/src/MatrixFunctions/MatrixSquareRoot.h
./unsupported/Eigen/src/MatrixFunctions/MatrixLogarithm.h
./unsupported/Eigen/src/MatrixFunctions/MatrixExponential.h
./unsupported/Eigen/src/MatrixFunctions/MatrixPower.h
./unsupported/Eigen/src/MatrixFunctions/MatrixExponential.h
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./unsupported/Eigen/src/MoreVectorization/MathFunctions.h
./unsupported/Eigen/src/LevenbergMarquardt/LevenbergMarquardt.h
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./unsupported/Eigen/src/Skyline/SkylineUtil.h ./unsupported/Eigen/src/Skyline/SkylineInplaceLU.h
./unsupported/Eigen/src/Skyline/SkylineMatrix.h ./unsupported/Eigen/SparseExtra
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./Eigen/src/Eigen2Support/Lazy.h ./Eigen/src/Eigen2Support/Memory.h
./Eigen/src/Eigen2Support/MathFunctions.h ./Eigen/src/Eigen2Support/Geometry/AlignedBox.h
./Eigen/src/Eigen2Support/Geometry/Hyperplane.h ./Eigen/src/Eigen2Support/Geometry/Quaternion.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/SparseMatrix.h ./Eigen/src/SparseCore/SparseVector.h
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./Eigen/src/StlSupport/StdVector.h ./Eigen/src/StlSupport/StdList.h ./Eigen/src/StlSupport/StdDeque.h
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./Eigen/src/LU/Determinant.h ./Eigen/src/LU/PartialPivLU.h ./Eigen/src/LU/FullPivLU.h
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./Eigen/src/OrderingMethods/Eigen_Colamd.h ./Eigen/src/QR/HouseholderQR.h
./Eigen/src/QR/ColPivHouseholderQR.h ./Eigen/src/QR/FullPivHouseholderQR.h
./Eigen/src/SVD/JacobiSVD.h ./Eigen/src/SVD/UpperBidiagonalization.h
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./Eigen/src/Core/GenericPacketMath.h ./Eigen/src/Core/NestByValue.h ./Eigen/src/Core/CwiseUnaryOps.h
./Eigen/src/Core/SolveTriangular.h ./Eigen/src/Core/Fuzzy.h ./Eigen/src/Core/Visitor.h
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./Eigen/src/Core/BooleanRedux.h ./Eigen/src/Core/Replicate.h ./Eigen/src/Core/arch/Altivec/Altivec.h
./Eigen/src/Core/arch/Altivec/Complex.h ./Eigen/src/Core/arch/SSE/PacketMath.h
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./Eigen/src/Core/arch/NEON/PacketMath.h ./Eigen/src/Core/arch/NEON/Complex.h
./Eigen/src/Core/arch/Default/Settings.h ./Eigen/src/Core/CwiseUnaryView.h ./Eigen/src/Core/Array.h
./Eigen/src/Core/ArrayWrapper.h ./Eigen/src/Core/Swap.h ./Eigen/src/Core/Transpositions.h

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./Eigen/src/Core/Random.h ./Eigen/src/Core/IO.h ./Eigen/src/Core/SelfCwiseBinaryOp.h
./Eigen/src/Core/VectorwiseOp.h ./Eigen/src/Core/Select.h ./Eigen/src/Core/ArrayBase.h
./Eigen/src/Core/DenseCoeffsBase.h ./Eigen/src/Core/DiagonalProduct.h ./Eigen/src/Core/Assign
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Device drivers	src/ mesa/ drivers	See drivers	Ext headers
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GVR Keyboard

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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

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Khronos reference front-end for GLSL and ESSL

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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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libyuv

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linux-syscall-support

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Lottie Web

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opus

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Paul Hsieh's SuperFastHash

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#### Protocol Buffers

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#### pyjson5

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

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pywebsocket3

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

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Quick Color Management System

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

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re2 - an efficient, principled regular expression library

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Shaderc

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six

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Skia

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SMHasher

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Snappy: A fast compressor/decompressor

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SPIR-V Headers

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SPIRV-Cross

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usrstcp

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v4l-utils

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V8 JavaScript Engine

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valgrind

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Weston - reference Wayland compositor

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woff2

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Wuffs (Wrangling Untrusted File Formats Safely)

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xdg-utils

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xxHash

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```

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

That's all there is to it!

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

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

```
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  USA.
***/

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

#include <inttypes.h>

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

#ifndef foodnshfoo
#define foodnshfoo

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***/
```

```
#include "rr.h"

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

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  USA.
****/

#ifdef HAVE_CONFIG_H
#include <config.h>

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

#ifndef fooclienthfoo
#define fooclienthfoo

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\*\*\*/

#include <inttypes.h>

=====

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=====

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

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

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

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

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

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

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

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked



with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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END OF TERMS AND CONDITIONS

#### Appendix: How to Apply These Terms to Your New Libraries

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```
<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.
```

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

```
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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-11.4.0: 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-11.4.0: COPYING3
mhdfs-0.1.39+git: LICENSE
readline-8.1.2: COPYING
samba-4.14.14: COPYING
xz-5.2.6: COPYING.GPLv3
=====
```

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Version 3, 29 June 2007

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c) Convey individual copies of the object code with a copy of the

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```
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Copyright (C) <year> <name of author>
```

```
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the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.
```

```
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GNU General Public License for more details.
```

```
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```

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```
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```

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```

=====
binutils-2.38: COPYING3.LIB
gcc-runtime-11.4.0: COPYING3.LIB
gdb-11.2: COPYING3.LIB
gmp-6.2.1: COPYING.LESSERv3
libgcc-11.4.0: COPYING3.LIB
libunistring-1.0: COPYING.LIB
nettle-3.7.3: COPYING.LESSERv3
=====

```

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```
=====
binutils-2.38: libiberty/COPYING.LIB
=====
```

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```

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```
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```

```
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```
=====
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gnutls-3.7.4: doc/COPYING.LESSER
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```

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```

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

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```
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dlt-daemon-2.18.8+2.18.9gitAUTOINC+6a3bd901d8: LICENSE
=====
```

```
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```

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 e2fsprogs-1.46.1: NOTICE  
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Theodore Ts'o  
23-June-2007

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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!

```
=====
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.
 *
 * %Begin-Header%
 * This file may be redistributed under the terms of the GNU Library
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 * %End-Header%
```

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

```
/*
 * e2p.h --- header file for the e2p library
 *
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 * %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
 *
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 *
 * %Begin-Header%
```

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```

```

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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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 *
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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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 *
 * This quote is just too good to not pass on:
 *
 * "BTW, I would have rejected the name Story Server because its
 * initials are SS, the name of the secret police in Nazi
 * Germany, probably the most despised pair of letters in western
 * culture." --- http://scriptingnewsarchive.userland.com/1999/12/13
```

```

*
* Let no one say political correctness isn't dead...

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

/* Retrieve ELF / DWARF / source files from the debuginfod.
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=====

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your brain examined.

```

Juliusz Chroboczek

```
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=====
```

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

```
/* pwait - wait for processes to terminate
 * extrace - trace exec() calls system-wide
 *
 * Copyright (C) 2014-2019 Leah Neukirchen <leah@vuxu.org>
 *
 * hacked from sources of:
 */
/* FreeBSD: head/bin/pwait/pwait.c 245506 2013-01-16 18:15:25Z delphij */
/*-
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 * NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
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 * OF SUCH DAMAGE.
 */
/* exec-notify, so you can watch your acrobat reader or vim executing "bash -c"
 * commands ;-)

```

```

* Requires some 2.6.x Linux kernel with proc connector enabled.
*
* $ cc -Wall -ansi -pedantic -std=c99 exec-notify.c
*
* (C) 2007-2010 Sebastian Krahmer <krahmer@suse.de> original netlink handling
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*/
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*/

```

```

=====
flashrom-1.2: COPYING
kmod-29: tools/COPYING
libftdi-1.4: COPYING.GPL
pciutils-3.7.0: COPYING
systemd-250.5: LICENSE.GPL2
=====

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```

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

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```
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```

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

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

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

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!

```
fixed -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
variable -*helvetica-bold-r-normal--*-120-*-*-*--koi8-r
5x8 -misc-fixed-medium-r-normal--8-80-75-75-c-50-koi8-r
6x9 -misc-fixed-medium-r-normal--9-90-75-75-c-60-koi8-r
6x10 -cronyx-fixed-medium-r-normal--10-100-75-75-c-60-koi8-r
6x13 -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
6x13bold -misc-fixed-bold-r-semicondensed--13-120-75-75-c-60-koi8-r
7x14 -misc-fixed-medium-r-normal--14-130-75-75-c-70-koi8-r
7x14b -misc-fixed-bold-r-normal--14-130-75-75-c-70-koi8-r
8x13 -misc-fixed-medium-r-normal--13-120-75-75-c-80-koi8-r
8x16 -misc-fixed-medium-r-normal--16-160-75-75-c-80-koi8-r
8x16bold -misc-fixed-bold-r-normal--16-160-75-75-c-80-koi8-r
9x15 -misc-fixed-medium-r-normal--15-140-75-75-c-90-koi8-r
9x15bold -misc-fixed-bold-r-normal--15-140-75-75-c-90-koi8-r
9x18 -misc-fixed-medium-r-normal--18-120-100-100-c-90-koi8-r
9x18bold -misc-fixed-bold-r-normal--18-120-100-100-c-90-koi8-r
10x16bold -cronyx-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r
10x20 -cronyx-fixed-medium-r-normal--20-200-75-75-c-100-koi8-r
12x24 -misc-fixed-medium-r-normal--24-170-100-100-c-120-koi8-r
12x24bold -misc-fixed-bold-r-normal--24-170-100-100-c-120-koi8-r
nil2 -cronyx-nil-medium-r-normal--2-20-75-75-c-10-koi8-r
koi-fixed -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
koi-variable -*helvetica-bold-r-normal--*-120-*-*-*--koi8-r
koi5x8 -misc-fixed-medium-r-normal--8-80-75-75-c-50-koi8-r
koi6x9 -misc-fixed-medium-r-normal--9-90-75-75-c-60-koi8-r
koi6x10 -cronyx-fixed-medium-r-normal--10-100-75-75-c-60-koi8-r
koi6x13 -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
koi6x13bold -misc-fixed-bold-r-semicondensed--13-120-75-75-c-60-koi8-r
koi7x14 -misc-fixed-medium-r-normal--14-130-75-75-c-70-koi8-r
koi7x14b -misc-fixed-bold-r-normal--14-130-75-75-c-70-koi8-r
koi8x13 -misc-fixed-medium-r-normal--13-120-75-75-c-80-koi8-r
koi8x16 -misc-fixed-medium-r-normal--16-160-75-75-c-80-koi8-r
koi8x16bold -misc-fixed-bold-r-normal--16-160-75-75-c-80-koi8-r
koi9x15 -misc-fixed-medium-r-normal--15-140-75-75-c-90-koi8-r
koi9x15bold -misc-fixed-bold-r-normal--15-140-75-75-c-90-koi8-r
koi9x18 -misc-fixed-medium-r-normal--18-120-100-100-c-90-koi8-r
koi9x18bold -misc-fixed-bold-r-normal--18-120-100-100-c-90-koi8-r
koi10x16bold -cronyx-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r
koi10x20 -cronyx-fixed-medium-r-normal--20-200-75-75-c-100-koi8-r
koi12x24 -misc-fixed-medium-r-normal--24-170-100-100-c-120-koi8-r
koi12x24bold -misc-fixed-bold-r-normal--24-170-100-100-c-120-koi8-r
koinil2 -cronyx-nil-medium-r-normal--2-20-75-75-c-10-koi8-r
screen8x16 -screen-fixed-medium-r-normal--16-120-100-100-c-80-koi8-r
screen8x16b -screen-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r
```

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

```

=====
lucidasans-bolditalic-8 -b&h-lucida-bold-i-normal-sans-8-80-75-75-p-49-iso8859-1
lucidasans-bolditalic-10 -b&h-lucida-bold-i-normal-sans-10-100-75-75-p-67-iso8859-1
lucidasans-bolditalic-12 -b&h-lucida-bold-i-normal-sans-12-120-75-75-p-79-iso8859-1
lucidasans-bolditalic-14 -b&h-lucida-bold-i-normal-sans-14-140-75-75-p-92-iso8859-1
lucidasans-bolditalic-18 -b&h-lucida-bold-i-normal-sans-18-180-75-75-p-119-iso8859-1
lucidasans-bolditalic-24 -b&h-lucida-bold-i-normal-sans-24-240-75-75-p-151-iso8859-1
lucidasans-bold-8 -b&h-lucida-bold-r-normal-sans-8-80-75-75-p-50-iso8859-1
lucidasans-bold-10 -b&h-lucida-bold-r-normal-sans-10-100-75-75-p-66-iso8859-1
lucidasans-bold-12 -b&h-lucida-bold-r-normal-sans-12-120-75-75-p-79-iso8859-1
lucidasans-bold-14 -b&h-lucida-bold-r-normal-sans-14-140-75-75-p-92-iso8859-1
lucidasans-bold-18 -b&h-lucida-bold-r-normal-sans-18-180-75-75-p-120-iso8859-1
lucidasans-bold-24 -b&h-lucida-bold-r-normal-sans-24-240-75-75-p-152-iso8859-1
lucidasans-italic-8 -b&h-lucida-medium-i-normal-sans-8-80-75-75-p-45-iso8859-1
lucidasans-italic-10 -b&h-lucida-medium-i-normal-sans-10-100-75-75-p-59-iso8859-1
lucidasans-italic-12 -b&h-lucida-medium-i-normal-sans-12-120-75-75-p-71-iso8859-1
lucidasans-italic-14 -b&h-lucida-medium-i-normal-sans-14-140-75-75-p-82-iso8859-1
lucidasans-italic-18 -b&h-lucida-medium-i-normal-sans-18-180-75-75-p-105-iso8859-1
lucidasans-italic-24 -b&h-lucida-medium-i-normal-sans-24-240-75-75-p-136-iso8859-1
lucidasans-8 -b&h-lucida-medium-r-normal-sans-8-80-75-75-p-45-iso8859-1
lucidasans-10 -b&h-lucida-medium-r-normal-sans-10-100-75-75-p-58-iso8859-1
lucidasans-12 -b&h-lucida-medium-r-normal-sans-12-120-75-75-p-71-iso8859-1
lucidasans-14 -b&h-lucida-medium-r-normal-sans-14-140-75-75-p-81-iso8859-1
lucidasans-18 -b&h-lucida-medium-r-normal-sans-18-180-75-75-p-106-iso8859-1
lucidasans-24 -b&h-lucida-medium-r-normal-sans-24-240-75-75-p-136-iso8859-1
lucidasanstypewriter-bold-8
-b&h-lucidatypewriter-bold-r-normal-sans-8-80-75-75-m-50-iso8859-1
lucidasanstypewriter-bold-10
-b&h-lucidatypewriter-bold-r-normal-sans-10-100-75-75-m-60-iso8859-1
lucidasanstypewriter-bold-12
-b&h-lucidatypewriter-bold-r-normal-sans-12-120-75-75-m-70-iso8859-1
lucidasanstypewriter-bold-14
-b&h-lucidatypewriter-bold-r-normal-sans-14-140-75-75-m-90-iso8859-1
lucidasanstypewriter-bold-18
-b&h-lucidatypewriter-bold-r-normal-sans-18-180-75-75-m-110-iso8859-1
lucidasanstypewriter-bold-24
-b&h-lucidatypewriter-bold-r-normal-sans-24-240-75-75-m-140-iso8859-1
lucidasanstypewriter-8
-b&h-lucidatypewriter-medium-r-normal-sans-8-80-75-75-m-50-iso8859-1
lucidasanstypewriter-10
-b&h-lucidatypewriter-medium-r-normal-sans-10-100-75-75-m-60-iso8859-1
lucidasanstypewriter-12
-b&h-lucidatypewriter-medium-r-normal-sans-12-120-75-75-m-70-iso8859-1
lucidasanstypewriter-14
-b&h-lucidatypewriter-medium-r-normal-sans-14-140-75-75-m-90-iso8859-1
lucidasanstypewriter-18
-b&h-lucidatypewriter-medium-r-normal-sans-18-180-75-75-m-110-iso8859-1
lucidasanstypewriter-24
-b&h-lucidatypewriter-medium-r-normal-sans-24-240-75-75-m-140-iso8859-1

```

```

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

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

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

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

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

```

hanzigbl6fs "-isas-fangsong ti-medium-r-normal--16-160-72-72-c-160-gb2312.1980-0"

olcursor "-sun-open look cursor-----12-120-75-75-p-160-sunolcursor-1"

olglyph-10 "-sun-open look glyph-----10-100-75-75-p-101-sunolglyph-1"

olglyph-12 "-sun-open look glyph-----12-120-75-75-p-113-sunolglyph-1"

olglyph-14 "-sun-open look glyph-----14-140-75-75-p-128-sunolglyph-1"

olglyph-19 "-sun-open look glyph-----19-190-75-75-p-154-sunolglyph-1"

-misc-fixed-medium-r-normal--7-50-100-100-c-50-iso8859-1

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

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

-misc-fixed-medium-r-normal--8-80-75-75-c-50-iso8859-1

-misc-fixed-medium-r-normal--9-80-100-100-c-60-iso8859-1

-misc-fixed-medium-r-normal--9-90-75-75-c-60-iso8859-1

-misc-fixed-medium-r-normal--10-70-100-100-c-60-iso8859-1

-misc-fixed-medium-r-normal--10-100-75-75-c-60-iso8859-1

-misc-fixed-medium-r-semicondensed--12-90-100-100-c-60-iso8859-1

-misc-fixed-medium-r-semicondensed--12-110-75-75-c-60-iso8859-1

-misc-fixed-medium-r-semicondensed--13-100-100-100-c-60-iso8859-1

-misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-1

-misc-fixed-bold-r-semicondensed--13-100-100-100-c-60-iso8859-1

-misc-fixed-bold-r-semicondensed--13-120-75-75-c-60-iso8859-1

-misc-fixed-medium-r-normal--13-100-100-100-c-70-iso8859-1

-misc-fixed-medium-r-normal--13-120-75-75-c-70-iso8859-1

-misc-fixed-bold-r-normal--13-100-100-100-c-70-iso8859-1

-misc-fixed-bold-r-normal--13-120-75-75-c-70-iso8859-1

-misc-fixed-medium-r-normal--13-100-100-100-c-80-iso8859-1

-misc-fixed-medium-r-normal--13-120-75-75-c-80-iso8859-1

-misc-fixed-bold-r-normal--13-100-100-100-c-80-iso8859-1

-misc-fixed-bold-r-normal--13-120-75-75-c-80-iso8859-1

-misc-fixed-medium-r-normal--14-110-100-100-c-70-iso8859-1

-misc-fixed-medium-r-normal--14-130-75-75-c-70-iso8859-1

-misc-fixed-medium-r-normal--15-120-100-100-c-90-iso8859-1

-misc-fixed-medium-r-normal--15-140-75-75-c-90-iso8859-1

-misc-fixed-bold-r-normal--15-120-100-100-c-90-iso8859-1

-misc-fixed-bold-r-normal--15-140-75-75-c-90-iso8859-1

-misc-fixed-medium-r-normal--20-140-100-100-c-100-iso8859-1

-misc-fixed-medium-r-normal--20-200-75-75-c-100-iso8859-1

-misc-fixed-medium-r-semicondensed--13-100-100-100-c-60-iso8859-8

-misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-8

-misc-fixed-medium-r-normal--13-100-100-100-c-80-iso8859-8

-misc-fixed-medium-r-normal--13-120-75-75-c-80-iso8859-8

-sony-fixed-medium-r-normal--16-150-75-75-c-80-iso8859-1

-sony-fixed-medium-r-normal--16-120-100-100-c-80-iso8859-1

-sony-fixed-medium-r-normal--16-150-75-75-c-80-jisx0201.1976-0

-sony-fixed-medium-r-normal--16-120-100-100-c-80-jisx0201.1976-0

-sony-fixed-medium-r-normal--24-230-75-75-c-120-iso8859-1

-sony-fixed-medium-r-normal--24-170-100-100-c-120-iso8859-1

-sony-fixed-medium-r-normal--24-230-75-75-c-120-jisx0201.1976-0

-sony-fixed-medium-r-normal--24-170-100-100-c-120-jisx0201.1976-0

```
-jis-fixed-medium-r-normal--16-110-100-100-c-160-jisx0208.1983-0
-jis-fixed-medium-r-normal--16-150-75-75-c-160-jisx0208.1983-0
-jis-fixed-medium-r-normal--24-170-100-100-c-240-jisx0208.1983-0
-jis-fixed-medium-r-normal--24-230-75-75-c-240-jisx0208.1983-0
```

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

```
lucidasans-bolditalic-8 -b&h-lucida-bold-i-normal-sans-11-80-100-100-p-69-iso8859-1
lucidasans-bolditalic-10
-b&h-lucida-bold-i-normal-sans-14-100-100-100-p-90-iso8859-1
lucidasans-bolditalic-12
-b&h-lucida-bold-i-normal-sans-17-120-100-100-p-108-iso8859-1
lucidasans-bolditalic-14
-b&h-lucida-bold-i-normal-sans-20-140-100-100-p-127-iso8859-1
lucidasans-bolditalic-18
-b&h-lucida-bold-i-normal-sans-25-180-100-100-p-159-iso8859-1
lucidasans-bolditalic-24
-b&h-lucida-bold-i-normal-sans-34-240-100-100-p-215-iso8859-1
lucidasans-bold-8 -b&h-lucida-bold-r-normal-sans-11-80-100-100-p-70-iso8859-1
lucidasans-bold-10 -b&h-lucida-bold-r-normal-sans-14-100-100-100-p-89-iso8859-1
lucidasans-bold-12 -b&h-lucida-bold-r-normal-sans-17-120-100-100-p-108-iso8859-1
lucidasans-bold-14 -b&h-lucida-bold-r-normal-sans-20-140-100-100-p-127-iso8859-1
lucidasans-bold-18 -b&h-lucida-bold-r-normal-sans-25-180-100-100-p-158-iso8859-1
lucidasans-bold-24 -b&h-lucida-bold-r-normal-sans-34-240-100-100-p-216-iso8859-1
lucidasans-italic-8 -b&h-lucida-medium-i-normal-sans-11-80-100-100-p-62-iso8859-1
lucidasans-italic-10 -b&h-lucida-medium-i-normal-sans-14-100-100-100-p-80-iso8859-1
lucidasans-italic-12 -b&h-lucida-medium-i-normal-sans-17-120-100-100-p-97-iso8859-1
lucidasans-italic-14 -b&h-lucida-medium-i-normal-sans-20-140-100-100-p-114-iso8859-1
lucidasans-italic-18 -b&h-lucida-medium-i-normal-sans-25-180-100-100-p-141-iso8859-1
lucidasans-italic-24 -b&h-lucida-medium-i-normal-sans-34-240-100-100-p-192-iso8859-1
lucidasans-8 -b&h-lucida-medium-r-normal-sans-11-80-100-100-p-63-iso8859-1
lucidasans-10 -b&h-lucida-medium-r-normal-sans-14-100-100-100-p-80-iso8859-1
lucidasans-12 -b&h-lucida-medium-r-normal-sans-17-120-100-100-p-96-iso8859-1
lucidasans-14 -b&h-lucida-medium-r-normal-sans-20-140-100-100-p-114-iso8859-1
lucidasans-18 -b&h-lucida-medium-r-normal-sans-25-180-100-100-p-142-iso8859-1
lucidasans-24 -b&h-lucida-medium-r-normal-sans-34-240-100-100-p-191-iso8859-1
lucidasanstypewriter-bold-8
-b&h-lucidatypewriter-bold-r-normal-sans-11-80-100-100-m-70-iso8859-1
lucidasanstypewriter-bold-10
-b&h-lucidatypewriter-bold-r-normal-sans-14-100-100-100-m-80-iso8859-1
lucidasanstypewriter-bold-12
-b&h-lucidatypewriter-bold-r-normal-sans-17-120-100-100-m-100-iso8859-1
lucidasanstypewriter-bold-14
-b&h-lucidatypewriter-bold-r-normal-sans-20-140-100-100-m-120-iso8859-1
lucidasanstypewriter-bold-18
-b&h-lucidatypewriter-bold-r-normal-sans-25-180-100-100-m-150-iso8859-1
lucidasanstypewriter-bold-24
-b&h-lucidatypewriter-bold-r-normal-sans-34-240-100-100-m-200-iso8859-1
```

```

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

```

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```

=====
fontconfig-2.13.1: src/fcft2type.c, 1-45
=====

```

```
/*
```

```

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*/

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

/*

```



```

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

```

```

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=====

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

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*/

```

```

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

```

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

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xserver-xf86-config-0.1: sources/poky/meta/COPYING.MIT  
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=====
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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>
```

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

```
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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.
```

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



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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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```
=====
fuse-2.9.9: COPYING.LIB
glib-2.0-2.72.3: COPYING
glib-2.0-2.72.3: gmodule/COPYING
glibc-2.35: COPYING.LIB
libn1-3.5.0: COPYING
libnsl2-2.0.0: COPYING
libxcrypt-4.4.33: COPYING.LIB
systemd-250.5: LICENSE.LGPL2.1
util-linux-2.37.4: Documentation/licenses/COPYING.LGPL-2.1-or-later
util-linux-libuuid-2.37.4: Documentation/licenses/COPYING.LGPL-2.1-or-later
xz-5.2.6: COPYING.LGPLv2.1
=====
```

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

```
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```
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```

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```
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!

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

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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

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=====
glibc-2.35: LICENSES
=====
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gmp-6.2.1: COPYINGv3
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```
=====
gnutls-3.7.4: LICENSE
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```

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iptables-1.8.7: iptables/iptables.c, 13-25

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

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

```

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

```

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

```

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

```

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libdaemon-0.14: libdaemon/daemon.h, 9-21
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```
=====
libglu-9.0.2: include/GL/glu.h, 1-29
libglu-9.0.2: src/libtess/tess.c, 1-29
=====
```

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

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```
=====
libpgp-error-1.44: src/init.c, 2-17
=====
```

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

```
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```
*/
```

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

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

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

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

```
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 * jpeglib.h  
 *  
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 * Copyright (C) 2015, Google, Inc.  
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 * file.  
 *  
 * This file defines the application interface for the JPEG library.  
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 * and perhaps jerror.h if they want to know the exact error codes.  
 */
```

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

```
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 *  
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```

```

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

```

```

/*

```

```

    Unix SMB/CIFS implementation.

```

```

    Python interface to ldb.

```

```

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

```

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```

```

*/

```

```

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

```

```

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```

```

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

```

```

/*

```

```

    Unix SMB/CIFS implementation.

```

```

    simple ldb tdb dump util

```

```

    Copyright (C) Andrew Tridgell                2001

```

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

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-----

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

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=====
libpcre2-10.40: LICENCE
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 */
```

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

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

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*/
```

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

```
/*
```

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

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```

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

```
/*
```

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

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```

```
*/
```

```

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

#ifndef __TDB_H__
#define __TDB_H__

/*
   Unix SMB/CIFS implementation.

   trivial database library

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*/

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

/*
   Unix SMB/CIFS implementation.

   generalised event loop handling

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```

\*/

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

/\*

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

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

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

@include version.texi

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

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

```

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

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

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

```

```

@c Table of Contents

```

```

@contents

```

```

@ifnottex

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```

@node Top

```

```

@top GNU libunistring

```

```

@end ifnottex

```

```

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```

```

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* Conventions::                Conventions used in this manual
* unitypes.h::                 Elementary types
* unistr.h::                   Elementary Unicode string functions
* uniconv.h::                  Conversions between Unicode and encodings
* unistdio.h::                 Output with Unicode strings
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* uninorm.h::                  Normalization forms
* unicase.h::                  Case mappings
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* Using the library::          How to link with the library and use it?
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```

```

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```

```

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```

```

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```

```

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```

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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
* Unicode strings::             How are Unicode strings represented?

```



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

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- \* Copying Unicode strings::
- \* Comparing Unicode strings::
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## Licenses

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

@end detailmenu

@end menu

@node Introduction

@chapter Introduction

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

It consists of the following parts:

```
@table @code
@item <unistr.h>
elementary string functions
@item <unicnv.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 <unigrk.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  
glibc has a function @func{mbsstr}, like @posixfunc{strstr}, but works in multibyte locales.

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

@item  
glibc has functions @func{mbssep} and @func{mbstok\_r} that are like @posixfunc{strsep} and @posixfunc{strtok\_r} but work in multibyte locales.

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

@end itemize

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

@itemize @bullet

@item  
It assumes that there are only two forms of every character: uppercase and lowercase. This is not true for Croatian, where the character @sc{LETTER DZ WITH CARON} comes in three forms:  
@sc{LATIN CAPITAL LETTER DZ WITH CARON} (DZ),  
@sc{LATIN CAPITAL LETTER D WITH SMALL LETTER Z WITH CARON} (Dz),  
@sc{LATIN SMALL LETTER DZ WITH CARON} (dz).

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

@item  
It assumes that there is 1:1 mapping between uppercase and lowercase forms. This is not true for the Greek sigma: @sc{GREEK CAPITAL LETTER SIGMA} is the uppercase of both @sc{GREEK SMALL LETTER SIGMA} and

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

```
@item
```

It assumes that the upper/lowercase mappings are position independent. This is not true for the Greek sigma and the Lithuanian i.

```
@end itemize
```

The correct way to deal with this problem is

```
@enumerate
```

```
@item
```

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

```
@item
```

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

```
@end enumerate
```

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

```
@node Unicode strings
```

```
@section Unicode strings
```

libunistring supports Unicode strings in three representations:

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

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

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

```
@itemize @bullet
```

```
@item
```

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

```
@item
```

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

```
@item
```

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

```
@end itemize
```

As with C strings, there are two variants:

```
@itemize @bullet
```

```
@item
```

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

```
@item
```

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

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

@node Conventions  
 @chapter Conventions

This chapter explains conventions valid throughout the libunistring library.

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

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

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

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

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

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

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

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

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

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

@node Include files  
@section Include files

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

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

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

@end deftypevr

@deftypevr Constant int `_libunistring_version`

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

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

@node Autoconf macro

@section Autoconf macro

@cindex autoconf macro

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

@amindex gl\_LIBUNISTRING

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

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

@itemize @bullet

@item

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

@item

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

@item

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

on most systems.

@end itemize

@node Reporting problems

@section Reporting problems

@cindex bug reports

@cindex bug tracker

@cindex mailing list

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

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

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

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

@node More functionality

@chapter More advanced functionality

@cindex bidirectional reordering

For bidirectional reordering of strings, we recommend the GNU FriBidi library:

@url{http://www.fribidi.org/}.

@cindex rendering

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

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

@include wchar\_t.texi

@include char32\_t.texi

@node Licenses

@appendix Licenses

@cindex Licenses

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

@itemize @bullet

@item

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

@itemize @bullet

```

@item @minus{}
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@*

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@*

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@end itemize

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

@page
@node GNU GPL
@appendixsec GNU GENERAL PUBLIC LICENSE
@cindex GPL, GNU General Public License

```



```

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

@node Index
@unnumbered Index

@printindex cp

@bye

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

```

```

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

```

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

Userspace RCU library licensing  
 Mathieu Desnoyers  
 September 3, 2012

\* LGPLv2.1

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

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

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

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

See lgpl-relicensing.txt for details.

\* MIT-style license :

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

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

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

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

MIT/X11 (BSD like) license apply to:

```
compiler.h
```

```

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

```

\* GPLv2

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

\* GPLv3 (or later)

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

```
m4/ax_tls.m4
```

```

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

```

```

/*
 * urcu.h
 *
 * Userspace RCU header
 *
 * Copyright (c) 2009 Mathieu Desnoyers <mathieu.desnoyers@efficios.com>
 * Copyright (c) 2009 Paul E. McKenney, IBM Corporation.
 *
 * LGPL-compatible code should include this header with :
 *
 * #define _LGPL_SOURCE
 * #include <urcu.h>
 *
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 *
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 * Lesser General Public License for more details.
 *
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 * Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

```

```
*
* IBM's contributions to this file may be relicensed under LGPLv2 or later.
*/
```

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

```
/*
* Copyright (c) 1991-1994 by Xerox Corporation. All rights reserved.
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* Copyright (c) 1999-2004 Hewlett-Packard Development Company, L.P.
* Copyright (c) 2009 Mathieu Desnoyers
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* Permission to modify the code and to distribute modified code is granted,
* provided the above notices are retained, and a notice that the code was
* modified is included with the above copyright notice.
*
* Code inspired from libuatomic_ops-1.2, inherited in part from the
* Boehm-Demers-Weiser conservative garbage collector.
*/
```

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

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Version 2.1, February 1999

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=====
```

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```

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```
````
```

```
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```

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```

```
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```

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

```

```
## APACHE2
```

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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-20230804: LICENCE.agere
=====
```

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

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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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```
=====
linux-firmware-20230804: LICENCE.cypress
=====
```

```
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```

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```
=====
linux-firmware-20230804: LICENSE.dib0700
=====
```

Firmware provided by Patrick Boettcher <pboettcher@dibcom.fr> to Devin Heitmueller <dheitmueller@kernellabs.com> on October 8, 2009.

The USB firmware file "dvh-usb-dib0700.1.20.fw" for DiBcom's DiB0700, used together with the Linux driver module dvh-usb-dib0700, is provided under the following licensing terms:

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=====
linux-firmware-20230804: LICENCE.e100
=====
```

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```
=====
linux-firmware-20230804: LICENCE.ene_firmware
=====
```

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```
=====
linux-firmware-20230804: LICENCE.fw_sst_0f28
=====
```

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```
=====
linux-firmware-20230804: LICENCE.go7007
=====
```

The README file from the original package from Micronas appears below. Only the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.

```
-----
WIS GO7007SB Public Linux Driver
-----
```

\*\*\* Please see the file RELEASE-NOTES for important last-minute updates \*\*\*

#### 0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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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:

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

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

<code>CONFIG_SND_MIXER_OSS</code>	- OSS Mixer API
<code>CONFIG_SND_PCM_OSS</code>	- 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 Cypress 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 ioctls 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:

__u32 gop_size	The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.
-------------------	---

__u32 max_b_frames	The maximum number of sequential bidirectionally-predicted frames. (B-frames are not yet supported.)
-----------------------	--

enum go7007_aspect_ratio aspect_ratio	The aspect ratio to be encoded in the meta-data of the compressed format.
--	---

Choices are:

```
GO7007_ASPECT_RATIO_1_1
GO7007_ASPECT_RATIO_4_3_NTSC
GO7007_ASPECT_RATIO_4_3_PAL
GO7007_ASPECT_RATIO_16_9_NTSC
GO7007_ASPECT_RATIO_16_9_PAL
```

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

Flags in struct go7007\_comp\_params:

GO7007_COMP_CLOSED_GOP	Only produce self-contained GOPs, used to produce streams appropriate for
------------------------	---

random seeking.

GO7007\_COMP\_OMIT\_SEQ\_HEADER 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    flags            Bit-wise OR of control flags (below)

__u32    pali            The profile and level indication to be
                           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 `ioctl`s 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  
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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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```
=====
linux-firmware-20230804: LICENCE.via_vt6656
=====
```

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

```
=====
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```

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```
=====
linux-firmware-20230804: LICENCE.wl1251
=====
```

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```
=====
linux-firmware-20230804: 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.

The code was released by Xceive under the following license:

```
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```

```
=====
linux-firmware-20230804: LICENCE.xc5000
=====
```

The following XC5000 firmware file "dvh-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-20230804: LICENCE.xc5000c
=====
```

The following XC500C firmware file "dvh-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-20230804: 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-ymfpcci -- Yamaha YMF724/740/744/754 audio devices

File: yamaha/ds1\_ctrl.fw

File: yamaha/ds1\_dsp.fw

File: yamaha/ds1e\_ctrl.fw

Licence: Unknown

Found alsa-firmware package in hex form, with the following comment:  
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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: qlal280 - Qlogic QLA 1240/1x80/1x160 SCSI support

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

Licence: Redistributable. See LICENCE.qlal280 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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 *
 * This firmware may not be modified and may only be used with the
 * Emagic EMI 2|6 Audio Interface. Distribution and/or Modification of
 * any driver which includes this firmware, in whole or in part,
 * 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:

Copyright (C) 2004 Texas Instruments

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

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

```
/*  
 * 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

Licence: Redistributable. See LICENCE.atheros\_firmware for details

---

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

Licence: Redistributable. See LICENCE.atheros\_firmware for details

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/gbrcvucode.sys  
File: slicoss/oasisdbgdownload.sys  
File: slicoss/oasisdownload.sys  
File: slicoss/oasisrcvucode.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-1.27.3.0.bin  
Link: cxgb4/t4fw.bin -> t4fw-1.27.3.0.bin  
File: cxgb4/t5fw-1.14.4.0.bin  
File: cxgb4/t5fw-1.15.37.0.bin  
File: cxgb4/t5fw-1.27.3.0.bin  
Link: cxgb4/t5fw.bin -> t5fw-1.27.3.0.bin  
File: cxgb4/t6fw-1.27.3.0.bin  
Link: cxgb4/t6fw.bin -> t6fw-1.27.3.0.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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-----

Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire\_rx.bin  
File: adaptec/starfire\_tx.bin

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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
```

Licence: Redistributable. See LICENCE.Marvell for details. Extracted from  
Linux driver tarballs downloaded from Marvell's "Extranet" with permission.

-----

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

Licence: Redistributable. See LICENCE.Marvell for details. 8687 images downloaded from Marvell's "Extranet" with permission. 8366 images contributed directly by Marvell.

-----  
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

Licence: Redistributable. See LICENCE.NXP for details.  
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: 74.2df8986f.0

File: iwlwifi-Qu-b0-hr-b0-77.ucode  
Version: 74.2df8986f.0

File: iwlwifi-Qu-b0-jf-b0-77.ucode  
Version: 74.2df8986f.0

File: iwlwifi-Qu-c0-hr-b0-77.ucode  
Version: 74.2df8986f.0

File: iwlwifi-Qu-c0-jf-b0-77.ucode  
Version: 74.2df8986f.0

File: iwlwifi-QuZ-a0-hr-b0-77.ucode  
Version: 74.2df8986f.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-ty-a0-gf-a0-83.ucode  
Version: 80.e8f84e98.0

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-gf4-a0-83.ucode  
Version: 80.e8f84e98.0

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-gf-a0-83.ucode  
Version: 80.e8f84e98.0

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: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

Licence:

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-----

Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

Licence:

/\*

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-----

Driver: yam - YAM driver for AX.25

File: yam/1200.bin

File: yam/9600.bin

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-----

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

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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

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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.

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-----  
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)

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-----

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

File: v4l-cx231xx-avcore-01.fw

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

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

File: v4l-cx23885-avcore-01.fw

Driver: cx23840 - Conexant sideport Broadcast A/V decoder

File: v4l-cx25840.fw

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-----

Driver: qlogicpti - PTI Qlogic, ISP Driver

File: qlogic/isp1000.bin

Licence: Unknown

Found in hex form in kernel source.

-----  
Driver: myri\_sbus - MyriCOM Gigabit Ethernet

File: myricom/lanai.bin

Licence: Unknown

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-----  
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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-----  
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/](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:

Copyright (c) 1998-2002 by Paul Davis <pbd@op.net>

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: mediatek/mt7601u.bin  
Version: 34  
Link: mt7601u.bin -> mediatek/mt7601u.bin

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](mailto: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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Found in decimal form in kernel source.

-----  
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  
File: amdgpu/hawaii\_sdma1.bin  
File: amdgpu/hawaii\_smc.bin  
File: amdgpu/hawaii\_uvd.bin  
File: amdgpu/hawaii\_vce.bin  
File: amdgpu/kabini\_ce.bin  
File: amdgpu/kabini\_me.bin

File: amdgpu/kabini\_mec.bin  
File: amdgpu/kabini\_pfp.bin  
File: amdgpu/kabini\_rlc.bin  
File: amdgpu/kabini\_sdma.bin  
File: amdgpu/kabini\_sdma1.bin  
File: amdgpu/kabini\_uvd.bin  
File: amdgpu/kabini\_vce.bin  
File: amdgpu/mullins\_ce.bin  
File: amdgpu/mullins\_me.bin  
File: amdgpu/mullins\_mec.bin  
File: amdgpu/mullins\_pfp.bin  
File: amdgpu/mullins\_rlc.bin  
File: amdgpu/mullins\_sdma.bin  
File: amdgpu/mullins\_sdma1.bin  
File: amdgpu/mullins\_uvd.bin  
File: amdgpu/mullins\_vce.bin  
File: amdgpu/kaveri\_ce.bin  
File: amdgpu/kaveri\_me.bin  
File: amdgpu/kaveri\_mec.bin  
File: amdgpu/kaveri\_mec2.bin  
File: amdgpu/kaveri\_pfp.bin  
File: amdgpu/kaveri\_rlc.bin  
File: amdgpu/kaveri\_sdma.bin  
File: amdgpu/kaveri\_sdma1.bin  
File: amdgpu/kaveri\_uvd.bin  
File: amdgpu/kaveri\_vce.bin  
File: amdgpu/topaz\_ce.bin  
File: amdgpu/topaz\_k\_smc.bin  
File: amdgpu/topaz\_mc.bin  
File: amdgpu/topaz\_me.bin  
File: amdgpu/topaz\_mec2.bin  
File: amdgpu/topaz\_mec.bin  
File: amdgpu/topaz\_pfp.bin  
File: amdgpu/topaz\_rlc.bin  
File: amdgpu/topaz\_sdma1.bin  
File: amdgpu/topaz\_sdma.bin  
File: amdgpu/topaz\_smc.bin  
File: amdgpu/tonga\_ce.bin  
File: amdgpu/tonga\_k\_smc.bin  
File: amdgpu/tonga\_mc.bin  
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Driver: s2255drv

File: f2255usb.bin

Version: 1.2.8

Licence: Redistributable.

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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

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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/CMVeIW0.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/CMVepW0.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

Licence:

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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

Licence: Redistributable. See LICENCE.cypress for details.

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 ->  
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,pinenote-v1.1.txt ->  
brcmfmac43455-sdio.AW-CM256SM.txt  
Link: brcm/brcmfmac43455-sdio.pine64,pinenote-v1.2.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-a.txt ->  
brcmfmac43455-sdio.AW-CM256SM.txt  
Link: brcm/brcmfmac43455-sdio.pine64,quartz64-b.txt ->  
brcmfmac43455-sdio.AW-CM256SM.txt  
Link: brcm/brcmfmac43455-sdio.pine64,rockpro64-v2.0.txt ->  
brcmfmac43455-sdio.AW-CM256SM.txt  
Link: brcm/brcmfmac43455-sdio.pine64,rockpro64-v2.1.txt ->  
brcmfmac43455-sdio.AW-CM256SM.txt  
Link: brcm/brcmfmac43455-sdio.pine64,soquartz-model-a.txt ->  
brcmfmac43455-sdio.AW-CM256SM.txt  
Link: brcm/brcmfmac43455-sdio.pine64,soquartz-cm4io.txt ->  
brcmfmac43455-sdio.AW-CM256SM.txt  
Link: brcm/brcmfmac43455-sdio.pine64,soquartz-blade.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: Rtl8192CUFwTSMCImgArray

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](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: 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

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 RTL8851B/RTL8852A/RTL8852B/RTL8852C

File: rtw89/rtw8851b\_fw.bin

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](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  
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

Info: rtl8188eu taken from Realtek driver version  
v5.2.2.4\_25483.20171222.  
Firmware is embedded in the driver as data statements. This info  
has been extracted into a binary file.  
File: rtlwifi/rtl8188eufw.bin  
Version: 28.0

Info: rtl8192fu taken from Realtek driver version  
v5.8.6.2\_35538.20191028\_COEX20190910-0d02.  
Firmware is embedded in the driver as data statements. This info  
has been extracted into a binary file.  
File: rtlwifi/rtl8192fufw.bin  
Version: 6.0

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----  
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  
 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

```

Licence: Redistributable. See LICENSE.QualcommAtheros\_ath10k for details

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Driver: ath11k - Qualcomm Technologies 802.11ax chipset support

```

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
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.2.7.0.1-01744-QCAHKSUPL_SILICONZ-1
File: ath11k/IPQ8074/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.2.7.0.1-01744-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-QCAHSTUPLZ_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.2.7.0.1-01744-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
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.1.0.1-01160-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-QCAHKSUWPL\_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

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-----  
Driver: drxk - Micronas DRX-K demodulator driver

File: dvb-usb-terratec-h5-drxk.fw

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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

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-----  
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-1.80.1.2d.d.bseq  
Version: BT\_WilkinsPeak\_B5\_REL\_42\_0001  
File: intel/ibt-hw-37.7.10-fw-1.0.1.2d.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\_REL53454  
File: intel/ibt-20-0-3.ddc  
Version: BT\_CyclonePeak\_A0\_REL53454  
File: intel/ibt-20-1-3.sfi  
Version: BT\_CyclonePeak\_A0\_REL53454  
File: intel/ibt-20-1-3.ddc  
Version: BT\_CyclonePeak\_A0\_REL53454  
File: intel/ibt-20-1-4.sfi  
Version: BT\_CyclonePeak\_A0\_REL53454  
File: intel/ibt-20-1-4.ddc  
Version: BT\_CyclonePeak\_A0\_REL53454  
File: intel/ibt-19-0-0.sfi  
Version: BT\_Quasar\_REL53454  
File: intel/ibt-19-0-0.ddc  
Version: BT\_Quasar\_REL53454  
File: intel/ibt-19-0-1.sfi  
Version: BT\_Quasar\_REL53454  
File: intel/ibt-19-0-1.ddc  
Version: BT\_Quasar\_REL53454  
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\_REL53454  
File:intel/ibt-19-0-4.ddc  
Version: BT\_HarrisonPeak\_REL53454  
File:intel/ibt-19-16-4.sfi  
Version: BT\_HarrisonPeak\_REL53454  
File:intel/ibt-19-16-4.ddc  
Version: BT\_HarrisonPeak\_REL53454  
File:intel/ibt-19-32-1.sfi  
Version: BT\_HarrisonPeak\_REL53454  
File:intel/ibt-19-32-1.ddc  
Version: BT\_HarrisonPeak\_REL53454  
File:intel/ibt-19-32-0.sfi  
Version: BT\_HarrisonPeak\_REL53454  
File:intel/ibt-19-32-0.ddc  
Version: BT\_HarrisonPeak\_REL53454  
File:intel/ibt-19-32-4.sfi  
Version: BT\_HarrisonPeak\_REL53454  
File:intel/ibt-19-32-4.ddc  
Version: BT\_HarrisonPeak\_REL53454  
File:intel/ibt-19-240-1.sfi  
Version: BT\_HarrisonPeak\_REL53454  
File:intel/ibt-19-240-1.ddc  
Version: BT\_HarrisonPeak\_REL53454  
File:intel/ibt-19-240-4.sfi  
Version: BT\_HarrisonPeak\_REL53454  
File:intel/ibt-19-240-4.ddc  
Version: BT\_HarrisonPeak\_REL53454  
File:intel/ibt-0041-0041.sfi  
Version: BT\_TyphoonPeak\_REL67068  
File:intel/ibt-0041-0041.ddc  
Version: BT\_TyphoonPeak\_REL67068  
File:intel/ibt-0040-0041.sfi  
Version: BT\_Solar\_GfP2\_REL67068  
File:intel/ibt-0040-0041.ddc  
Version: BT\_Solar\_GfP2\_REL67068  
File:intel/ibt-1040-0041.sfi  
Version: BT\_SolarF\_GfP2\_REL67068  
File:intel/ibt-1040-0041.ddc  
Version: BT\_SolarF\_GfP2\_REL67068  
  
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\_REL67068  
File:intel/ibt-0040-4150.ddc  
Version: BT\_Solar\_JnP2\_REL67068  
File:intel/ibt-1040-4150.sfi  
Version: BT\_SolarF\_JnP2\_REL67068  
File:intel/ibt-1040-4150.ddc  
Version: BT\_SolarF\_JnP2\_REL67068

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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  
File: rtl\_bt/rtl8851bu\_fw.bin  
File: rtl\_bt/rtl8851bu\_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](https://github.com/troy-tan/driver_store)  
Files rtl\_bt/rtl8822b\_\* came directly from Realtek. These files are updated on April 14, 2017.

Found in vendor driver, 20200806\_LINUX\_BT\_DRIVER\_RTL8761B\_COEX\_v0202.zip  
File rtl\_bt/rtl8761b\_config.bin  
File rtl\_bt/rtl8761bu\_config.bin

-----  
Driver: btmtk\_usb - Bluetooth USB driver

File: mediatek/mt7650.bin  
Link: mt7650.bin -> mediatek/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

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-----  
Driver: ccp - Platform Security Processor (PSP) device

File: amd/amd\_sev\_fam17h\_model0xh.sbin  
Version: 2022-2-25  
File: amd/amd\_sev\_fam17h\_model3xh.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  
Raw: amd-ucode/microcode\_amd.bin  
Version: 2013-07-10  
File: amd-ucode/microcode\_amd\_fam15h.bin  
Raw: amd-ucode/microcode\_amd\_fam15h.bin  
Version: 2018-05-24  
File: amd-ucode/microcode\_amd\_fam16h.bin  
Raw: amd-ucode/microcode\_amd\_fam16h.bin  
Version: 2014-10-28  
File: amd-ucode/microcode\_amd\_fam17h.bin  
Raw: amd-ucode/microcode\_amd\_fam17h.bin  
Version: 2023-07-19

File: amd-ucode/microcode\_amd\_fam19h.bin  
Raw: amd-ucode/microcode\_amd\_fam19h.bin  
Version: 2023-07-18  
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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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

Licence:

\* Firmware is:

\* Derived from proprietary unpublished source code,

\* Copyright (C) 2019 Redpine Signals Inc.

\*

\* Permission is hereby granted for the distribution of this firmware

\* as part of Linux or other Open Source operating system kernel

\* 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  
File: qca/msnv11.b0a  
File: qca/msnv11.b09

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/hpbnv21.bin  
File: qca/hpbnv21g.bin  
File: qca/hpbnv21.301  
File: qca/hpbnv21.302  
File: qca/hpbnv21g.301  
File: qca/hpbnv21g.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 20 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 70.8.0 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 13 for Meteorlake

File: i915/mtl\_guc\_70.bin

Version: GuC API/APB ver 70.8.0 for Meteorlake

File: i915/mtl\_huc\_gsc.bin

Version: HuC API/APB ver 8.5.1 for Meteorlake

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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  
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File: nvidia/gm20b/acr/bl.bin  
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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  
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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  
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File: nvidia/gp100/acr/ucode\_unload.bin  
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File: nvidia/gp100/gr/sw\_ctx.bin  
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File: nvidia/gp100/gr/sw\_nonctx.bin  
File: nvidia/gp102/acr/bl.bin



File: nvidia/gp102/acr/ucode\_load.bin  
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File: nvidia/gp102/acr/unload\_bl.bin  
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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  
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Link: nvidia/gp104/acr/ucode\_unload.bin -> ../../gp102/acr/ucode\_unload.bin  
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File: nvidia/gp10b/gr/sw\_nonctx.bin  
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File: nvidia/gp10b/pmu/image.bin  
File: nvidia/gp10b/pmu/sig.bin  
Link: nvidia/gp108/acr/bl.bin -> ../../gp102/acr/bl.bin  
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Link: nvidia/gp108/acr/ucode\_unload.bin -> ../../gp102/acr/ucode\_unload.bin  
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Link: nvidia/gp108/sec2/image.bin -> ../../gp102/sec2/image-1.bin  
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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  
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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: 16.0

License: Redistributable. See LICENSE.atmel for details

-----  
Driver: hfi1 - Intel OPA Gen 1 adapter

File: hfi1\_dc8051.fw  
Version: 1.27.0  
File: hfi1\_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: v2.0.21961

Licence: Redistributable. See LICENCE.mediatek for details.

-----

Driver: btmtk - MediaTek Bluetooth Driver

File: mediatek/mt7622pr2h.bin

Version: 20180621204904

File: mediatek/mt7668pr2h.bin

Version: 20180517181834

# Note: explicitly commented out, since it's duplicated further down

# 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: mediatek/mt7662.bin

Version: 1.9

Link: mt7662.bin -> mediatek/mt7662.bin

File: mediatek/mt7662\_rom\_patch.bin

Version: 0.0.2\_P69

Link: mt7662\_rom\_patch.bin -> mediatek/mt7662\_rom\_patch.bin

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/MT7981

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: 20230202145005  
File: mediatek/mt7916\_wa.bin  
Version: 20230202143332  
File: mediatek/mt7916\_rom\_patch.bin  
Version: 20230202144915a  
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

File: mediatek/mt7981\_wm.bin

Version: 20221208201806

File: mediatek/mt7981\_wa.bin

Version: 20221208202048

File: mediatek/mt7981\_rom\_patch.bin

Version: 20221208201745a

File: mediatek/mt7981\_wo.bin

Version: 20221208202138

Licence: Redistributable. See LICENCE.mediatek for details.

-----

Driver: mt7921 - MediaTek MT7921 Wireless MACs

File: mediatek/WIFI\_MT7961\_patch\_mcu\_1\_2\_hdr.bin

Version: 20230526130917a

File: mediatek/WIFI\_RAM\_CODE\_MT7961\_1.bin

Version: 20230526130958

Licence: Redistributable. See LICENCE.mediatek for details.

-----

Driver: mt7921 - MediaTek MT7921 bluetooth chipset

File: mediatek/BT\_RAM\_CODE\_MT7961\_1\_2\_hdr.bin

Version: 20230526131214

Licence: Redistributable. See LICENCE.mediatek for details.

-----

Driver: mt7922 - MediaTek MT7922 Wireless MACs

File: mediatek/WIFI\_MT7922\_patch\_mcu\_1\_1\_hdr.bin

Version: 20230627143702a

File: mediatek/WIFI\_RAM\_CODE\_MT7922\_1.bin

Version: 20230627143946

Licence: Redistributable. See LICENCE.mediatek for details.

-----

Driver: mt7922 - MediaTek MT7922 bluetooth chipset

File: mediatek/BT\_RAM\_CODE\_MT7922\_1\_1\_hdr.bin

Version: 20230627144220

Licence: Redistributable. See LICENCE.mediatek for details.

-----  
 Driver: nfp - Netronome Flow Processor

Link: netronome/nic\_AMDA0081-0001\_1x40.nffw -> nic/nic\_AMDA0081-0001\_1x40.nffw  
 Link: netronome/nic\_AMDA0097-0001\_2x40.nffw -> nic/nic\_AMDA0097-0001\_2x40.nffw  
 Link: netronome/nic\_AMDA0099-0001\_2x10.nffw -> nic/nic\_AMDA0099-0001\_2x10.nffw  
 Link: netronome/nic\_AMDA0081-0001\_4x10.nffw -> nic/nic\_AMDA0081-0001\_4x10.nffw  
 Link: netronome/nic\_AMDA0097-0001\_4x10\_1x40.nffw ->  
 nic/nic\_AMDA0097-0001\_4x10\_1x40.nffw  
 Link: netronome/nic\_AMDA0099-0001\_1x10\_1x25.nffw ->  
 nic/nic\_AMDA0099-0001\_1x10\_1x25.nffw  
 Link: netronome/nic\_AMDA0099-0001\_2x25.nffw -> nic/nic\_AMDA0099-0001\_2x25.nffw  
 Link: netronome/nic\_AMDA0096-0001\_2x10.nffw -> nic/nic\_AMDA0096-0001\_2x10.nffw  
 Link: netronome/nic\_AMDA0097-0001\_8x10.nffw -> nic/nic\_AMDA0097-0001\_8x10.nffw  
 Link: netronome/nic\_AMDA0058-0011\_2x40.nffw -> nic/nic\_AMDA0058-0011\_2x40.nffw  
 Link: netronome/nic\_AMDA0058-0012\_2x40.nffw -> nic/nic\_AMDA0058-0012\_2x40.nffw  
 Link: netronome/nic\_AMDA0078-0011\_1x100.nffw -> nic/nic\_AMDA0078-0011\_1x100.nffw  
 File: netronome/nic/nic\_AMDA0081-0001\_1x40.nffw  
 File: netronome/nic/nic\_AMDA0097-0001\_2x40.nffw  
 File: netronome/nic/nic\_AMDA0099-0001\_2x10.nffw  
 File: netronome/nic/nic\_AMDA0081-0001\_4x10.nffw  
 File: netronome/nic/nic\_AMDA0097-0001\_4x10\_1x40.nffw  
 File: netronome/nic/nic\_AMDA0099-0001\_1x10\_1x25.nffw  
 File: netronome/nic/nic\_AMDA0099-0001\_2x25.nffw  
 File: netronome/nic/nic\_AMDA0096-0001\_2x10.nffw  
 File: netronome/nic/nic\_AMDA0097-0001\_8x10.nffw  
 File: netronome/nic/nic\_AMDA0058-0011\_2x40.nffw  
 File: netronome/nic/nic\_AMDA0058-0012\_2x40.nffw  
 File: netronome/nic/nic\_AMDA0078-0011\_1x100.nffw  
 File: netronome/nic-sriov/nic\_AMDA0081-0001\_1x40.nffw  
 File: netronome/nic-sriov/nic\_AMDA0097-0001\_2x40.nffw  
 File: netronome/nic-sriov/nic\_AMDA0099-0001\_2x10.nffw  
 File: netronome/nic-sriov/nic\_AMDA0081-0001\_4x10.nffw  
 File: netronome/nic-sriov/nic\_AMDA0097-0001\_4x10\_1x40.nffw  
 File: netronome/nic-sriov/nic\_AMDA0099-0001\_1x10\_1x25.nffw  
 File: netronome/nic-sriov/nic\_AMDA0099-0001\_2x25.nffw  
 File: netronome/nic-sriov/nic\_AMDA0096-0001\_2x10.nffw  
 File: netronome/nic-sriov/nic\_AMDA0097-0001\_8x10.nffw  
 File: netronome/nic-sriov/nic\_AMDA0058-0011\_2x40.nffw  
 File: netronome/nic-sriov/nic\_AMDA0058-0012\_2x40.nffw  
 File: netronome/nic-sriov/nic\_AMDA0078-0011\_1x100.nffw

Version: v2.1.16.1

File: netronome/flower/nic\_AMDA0099.nffw  
 File: netronome/flower/nic\_AMDA0096.nffw  
 File: netronome/flower/nic\_AMDA0097.nffw

```

File: netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0081.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0081-0001_1x40.nffw -> nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_2x40.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x10.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0081-0001_4x10.nffw -> nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_4x10_1x40.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x25.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0096-0001_2x10.nffw -> nic_AMDA0096.nffw
Link: netronome/flower/nic_AMDA0097-0001_8x10.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_1x10_1x25.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0058-0011_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_8x10.nffw -> nic_AMDA0058.nffw

```

Version: AOTC-2.14.A.6

```

File: netronome/bpf/nic_AMDA0081-0001_1x40.nffw
File: netronome/bpf/nic_AMDA0097-0001_2x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0081-0001_4x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x25.nffw
File: netronome/bpf/nic_AMDA0096-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_8x10.nffw
File: netronome/bpf/nic_AMDA0058-0011_2x40.nffw
File: netronome/bpf/nic_AMDA0058-0012_2x40.nffw
File: netronome/bpf/nic_AMDA0078-0011_1x100.nffw

```

Version: v2.0.6.124

Licence: Redistributable. See LICENCE.Netronome for details

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Driver: wil6210 - Qualcomm Atheros support for 11ad 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>

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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

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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/apq8016/mba.mbn  
 File: qcom/apq8016/modem.mbn  
 File: qcom/apq8016/wcnss.mbn  
 File: qcom/apq8016/WCNSS\_qcom\_wlan\_nv\_sbc.bin  
 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/sdm845/Thundercomm/db845c/slpi.mbn  
 File: qcom/sdm845/Thundercomm/db845c/slpir.jsn  
 File: qcom/sdm845/Thundercomm/db845c/slpius.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

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Binary files supplied originally from  
<http://releases.linaro.org/96boards/dragonboard410c/qualcomm/firmware/linux-board-support-package-r1036.1.zip>  
[http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3\\_firmware\\_20221121000000-v5.zip](http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20221121000000-v5.zip)  
[http://releases.linaro.org/96boards/rb5/qualcomm/firmware/RB5\\_firmware\\_20210331-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\_nm.mbn  
File: qcom/sdm845/modemuw.jsn  
Link: qcom/sdm845/modem.mbn -> modem\_nm.mbn

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\\_20221121000000-v5.zip](http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20221121000000-v5.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  
File: mellanox/mlxsw\_spectrum-13.2012.1012.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2012.1012.mfa2  
File: mellanox/mlxsw\_spectrum3-30.2012.1012.mfa2  
File: mellanox/mlxsw\_spectrum4-34.2012.1012.mfa2

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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

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Driver: msc-phy - Microchip PHY drivers

File: microchip/mscc\_vsc8574\_revb\_int8051\_29e8.bin  
File: microchip/mscc\_vsc8584\_revb\_int8051\_fb48.bin

Licence: Redistributable. See LICENSE.microchip for details

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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  
File: intel/ice/ddp-lag/ice\_lag-1.3.1.0.pkg

License: Redistributable. See LICENSE.ice for details

File: intel/ice/ddp-comms/ice\_comms-1.3.40.0.pkg

File: intel/ice/ddp-wireless\_edge/ice\_wireless\_edge-1.3.10.0.pkg

License: Redistributable. See LICENSE.ice\_enhanced for details

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Driver: inside-secure -- Inside Secure EIP197 crypto driver

File: inside-secure/eip197\_minifw/ipue.bin

File: inside-secure/eip197\_minifw/ifpp.bin

Licence: Redistributable.

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Driver: presteria - Marvell driver for Presteria family ASIC devices

File: mrvl/presteria/mvsw\_prestera\_fw-v2.0.img

File: mrvl/presteria/mvsw\_prestera\_fw-v3.0.img

File: mrvl/presteria/mvsw\_prestera\_fw-v4.0.img

File: mrvl/presteria/mvsw\_prestera\_fw-v4.1.img

File: mrvl/presteria/mvsw\_prestera\_fw\_arm64-v4.1.img

Licence: Redistributable. See LICENCE.Marvell for details.

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Driver: lt961luxc - Lontium DSI to HDMI bridge

File: lt961luxc\_fw.bin

License: Redistributable. See LICENSE.Lontium for details.

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Driver: wfx - Silicon Labs Wi-Fi Transceiver

File: wfx/wfm\_wf200\_C0.sec

Version: 3.16.1

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>

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Driver: wave5 - Chips&Media, Inc. video codec driver

File: cnm/wave521c\_k3\_codec\_fw.bin

Licence: Redistributable. See LICENCE.cnm for details.

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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.

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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: cs35141\_hda - CS35141 ALSA HDA audio driver

File: cirrus/cs35141-dsp1-spk-prot.wmfw  
File: cirrus/cs35141-dsp1-spk-prot.bin  
File: cirrus/cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-103c8971.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-103c8971.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-103c8972.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-103c8972.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-103c8973.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-103c8973.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-103c8974.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-103c8974.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-103c8975.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-103c8975.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-103c896e.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-103c896e.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-103c89c3.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-103c89c3.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-103c8981.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-103c8981.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-103c898e.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-103c898e.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-103c898f.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-103c898f.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-103c8991.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-103c8991.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-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-dspl-spk-cali-103c896e-r0.bin  
File: cirrus/cs35141-dspl-spk-prot-103c896e-10.bin  
File: cirrus/cs35141-dspl-spk-cali-103c896e-10.bin  
Link: cirrus/cs35141-dspl-spk-prot-103c898e.bin ->  
cs35141-dspl-spk-prot-103c8971.bin  
Link: cirrus/cs35141-dspl-spk-cali-103c898e.bin ->  
cs35141-dspl-spk-cali-103c8971.bin  
Link: cirrus/cs35141-dspl-spk-prot-103c898f.bin ->  
cs35141-dspl-spk-prot-103c8971.bin  
Link: cirrus/cs35141-dspl-spk-cali-103c898f.bin ->  
cs35141-dspl-spk-cali-103c8971.bin  
Link: cirrus/cs35141-dspl-spk-prot-103c8991.bin ->  
cs35141-dspl-spk-prot-103c8972.bin  
Link: cirrus/cs35141-dspl-spk-cali-103c8991.bin ->  
cs35141-dspl-spk-cali-103c8972.bin  
Link: cirrus/cs35141-dspl-spk-prot-103c8992.bin ->  
cs35141-dspl-spk-prot-103c8972.bin  
Link: cirrus/cs35141-dspl-spk-cali-103c8992.bin ->  
cs35141-dspl-spk-cali-103c8972.bin  
Link: cirrus/cs35141-dspl-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-103c8981-11.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-spkid0-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-17aa3847-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-17aa3847-spkid0.bin  
File: cirrus/cs35141-dsp1-spk-prot-17aa3847-spkid1-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-17aa3847-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-17aa3847-spkid1.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-spkid0-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-17aa3855-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-17aa3855-spkid0.bin

File: cirrus/cs35141-dsp1-spk-prot-17aa3855-spkid1-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-17aa3855-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-17aa3855-spkid1.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  
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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-spkid0-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-104312af-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-104312af-spkid1-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-104312af-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-104312af-spkid0-10.bin  
File: cirrus/cs35141-dsp1-spk-cali-104312af-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-104312af-spkid1-10.bin  
File: cirrus/cs35141-dsp1-spk-cali-104312af-spkid1-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-spkid0-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431a8f-spkid0-r0.bin

File: cirrus/cs35141-dsp1-spk-prot-10431a8f-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431a8f-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spkid1-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-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431e02-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431e02-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431e02-spkid0-r0.bin  
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File: cirrus/cs35141-dsp1-spk-prot-10431e02-spkid1-r0.bin  
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File: cirrus/cs35141-dsp1-spk-cali-10431e02-spkid1-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  
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File: cirrus/cs35141-dsp1-spk-cali-10431f12-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431f12-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431f12-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431f12-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431f12-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431f12-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431f12-spkid1-r0.bin  
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cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
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File: cirrus/cs35141-dsp1-spk-cali-10431e12-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431e12-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431e12-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431e12-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431e12-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431e12-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431e12-spkid1-r0.bin  
File: cirrus/cs35141/v6.78.0/halo\_cspl\_RAM\_revB2\_29.80.0.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-10431573.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-10431573.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-10431463.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-10431463.wmfw ->

cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-10431483.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-10431483.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-10431663.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-10431663.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-10431473.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-10431473.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-10431493.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-10431493.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-10431533.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-10431533.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-10431433.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-10431433.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-10431caf.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-10431caf.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-10431cef.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-10431cef.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-104314d3.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-104314d3.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-10431c9f.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-10431c9f.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-10431cdf.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-10431cdf.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-10431ccf.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-10431ccf.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-10431503.wmfw ->

cs35141/v6.78.0/halo\_cspl\_RAM\_revB2\_29.80.0.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-10431503.wmfw ->  
cs35141/v6.78.0/halo\_cspl\_RAM\_revB2\_29.80.0.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-104314e3.wmfw ->  
cs35141/v6.78.0/halo\_cspl\_RAM\_revB2\_29.80.0.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-104314e3.wmfw ->  
cs35141/v6.78.0/halo\_cspl\_RAM\_revB2\_29.80.0.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-10431d1f.wmfw ->  
cs35141/v6.78.0/halo\_cspl\_RAM\_revB2\_29.80.0.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-10431d1f.wmfw ->  
cs35141/v6.78.0/halo\_cspl\_RAM\_revB2\_29.80.0.wmfw  
Link: cirrus/cs35141-dsp1-spk-prot-104317f3.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dsp1-spk-cali-104317f3.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
File: cirrus/cs35141-dsp1-spk-prot-10431c9f-spkiid0-10.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431c9f-spkiid0-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431c9f-spkiid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431c9f-spkiid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431c9f-spkiid1-10.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431c9f-spkiid1-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431c9f-spkiid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431c9f-spkiid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431caf-spkiid0-10.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431caf-spkiid0-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431caf-spkiid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431caf-spkiid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431caf-spkiid1-10.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431caf-spkiid1-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431caf-spkiid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431caf-spkiid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431503-spkiid0-10.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431503-spkiid0-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431503-spkiid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431503-spkiid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431503-spkiid1-10.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431503-spkiid1-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431503-spkiid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431503-spkiid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431ccf-spkiid0-10.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431ccf-spkiid0-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431ccf-spkiid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431ccf-spkiid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431ccf-spkiid1-10.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431ccf-spkiid1-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431ccf-spkiid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431ccf-spkiid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431cef-spkiid0-10.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431cef-spkiid0-10.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431cef-spkiid0-r0.bin

File: cirrus/cs35141-dsp1-spk-cali-10431cef-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431cef-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431cef-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431cef-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431cef-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431463-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431463-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431463-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431463-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431463-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431463-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431463-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431463-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431483-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431483-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431483-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431483-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431473-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431473-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431473-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431473-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431533-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431533-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431533-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431533-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431533-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431533-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431533-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431533-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431433-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431433-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431433-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431433-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431433-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431433-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431433-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431433-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431573-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431573-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431573-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431573-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431573-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431573-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431573-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431573-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-104317f3-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-104317f3-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-104317f3-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-104317f3-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-104317f3-spkid1-l0.bin

File: cirrus/cs35141-dsp1-spk-cali-104317f3-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-104317f3-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-104317f3-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431493-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431493-spkid0-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431493-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431493-spkid0-r0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431493-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431493-spkid1-l0.bin  
File: cirrus/cs35141-dsp1-spk-prot-10431493-spkid1-r0.bin  
File: cirrus/cs35141-dsp1-spk-cali-10431493-spkid1-r0.bin  
Link: cirrus/cs35141-dsp1-spk-prot-10431663-l0.bin ->  
cs35141-dsp1-spk-prot-10431483-l0.bin  
Link: cirrus/cs35141-dsp1-spk-cali-10431663-l0.bin ->  
cs35141-dsp1-spk-cali-10431483-l0.bin  
Link: cirrus/cs35141-dsp1-spk-prot-10431663-r0.bin ->  
cs35141-dsp1-spk-prot-10431483-r0.bin  
Link: cirrus/cs35141-dsp1-spk-cali-10431663-r0.bin ->  
cs35141-dsp1-spk-cali-10431483-r0.bin  
Link: cirrus/cs35141-dsp1-spk-prot-104314d3-spkid0-l0.bin ->  
cs35141-dsp1-spk-prot-10431c9f-spkid0-l0.bin  
Link: cirrus/cs35141-dsp1-spk-cali-104314d3-spkid0-l0.bin ->  
cs35141-dsp1-spk-cali-10431c9f-spkid0-l0.bin  
Link: cirrus/cs35141-dsp1-spk-prot-104314d3-spkid0-r0.bin ->  
cs35141-dsp1-spk-prot-10431c9f-spkid0-r0.bin  
Link: cirrus/cs35141-dsp1-spk-cali-104314d3-spkid0-r0.bin ->  
cs35141-dsp1-spk-cali-10431c9f-spkid0-r0.bin  
Link: cirrus/cs35141-dsp1-spk-prot-104314d3-spkid1-l0.bin ->  
cs35141-dsp1-spk-prot-10431c9f-spkid1-l0.bin  
Link: cirrus/cs35141-dsp1-spk-cali-104314d3-spkid1-l0.bin ->  
cs35141-dsp1-spk-cali-10431c9f-spkid1-l0.bin  
Link: cirrus/cs35141-dsp1-spk-prot-104314d3-spkid1-r0.bin ->  
cs35141-dsp1-spk-prot-10431c9f-spkid1-r0.bin  
Link: cirrus/cs35141-dsp1-spk-cali-104314d3-spkid1-r0.bin ->  
cs35141-dsp1-spk-cali-10431c9f-spkid1-r0.bin  
Link: cirrus/cs35141-dsp1-spk-prot-10431cdf-spkid0-l0.bin ->  
cs35141-dsp1-spk-prot-10431ccf-spkid0-l0.bin  
Link: cirrus/cs35141-dsp1-spk-cali-10431cdf-spkid0-l0.bin ->  
cs35141-dsp1-spk-cali-10431ccf-spkid0-l0.bin  
Link: cirrus/cs35141-dsp1-spk-prot-10431cdf-spkid0-r0.bin ->  
cs35141-dsp1-spk-prot-10431ccf-spkid0-r0.bin  
Link: cirrus/cs35141-dsp1-spk-cali-10431cdf-spkid0-r0.bin ->  
cs35141-dsp1-spk-cali-10431ccf-spkid0-r0.bin  
Link: cirrus/cs35141-dsp1-spk-prot-10431cdf-spkid1-l0.bin ->  
cs35141-dsp1-spk-prot-10431ccf-spkid1-l0.bin  
Link: cirrus/cs35141-dsp1-spk-cali-10431cdf-spkid1-l0.bin ->  
cs35141-dsp1-spk-cali-10431ccf-spkid1-l0.bin  
Link: cirrus/cs35141-dsp1-spk-prot-10431cdf-spkid1-r0.bin ->  
cs35141-dsp1-spk-prot-10431ccf-spkid1-r0.bin  
Link: cirrus/cs35141-dsp1-spk-cali-10431cdf-spkid1-r0.bin ->



cs35141-dsp1-spk-cali-10431ccf-spkid1-r0.bin  
Link: cirrus/cs35141-dsp1-spk-prot-104314e3-spkid0-10.bin ->  
cs35141-dsp1-spk-prot-10431503-spkid0-10.bin  
Link: cirrus/cs35141-dsp1-spk-cali-104314e3-spkid0-10.bin ->  
cs35141-dsp1-spk-cali-10431503-spkid0-10.bin  
Link: cirrus/cs35141-dsp1-spk-prot-104314e3-spkid0-r0.bin ->  
cs35141-dsp1-spk-prot-10431503-spkid0-r0.bin  
Link: cirrus/cs35141-dsp1-spk-cali-104314e3-spkid0-r0.bin ->  
cs35141-dsp1-spk-cali-10431503-spkid0-r0.bin  
Link: cirrus/cs35141-dsp1-spk-prot-104314e3-spkid1-10.bin ->  
cs35141-dsp1-spk-prot-10431503-spkid1-10.bin  
Link: cirrus/cs35141-dsp1-spk-cali-104314e3-spkid1-10.bin ->  
cs35141-dsp1-spk-cali-10431503-spkid1-10.bin  
Link: cirrus/cs35141-dsp1-spk-prot-104314e3-spkid1-r0.bin ->  
cs35141-dsp1-spk-prot-10431503-spkid1-r0.bin  
Link: cirrus/cs35141-dsp1-spk-cali-104314e3-spkid1-r0.bin ->  
cs35141-dsp1-spk-cali-10431503-spkid1-r0.bin  
Link: cirrus/cs35141-dsp1-spk-prot-10431d1f-spkid0-10.bin ->  
cs35141-dsp1-spk-prot-10431503-spkid0-10.bin  
Link: cirrus/cs35141-dsp1-spk-cali-10431d1f-spkid0-10.bin ->  
cs35141-dsp1-spk-cali-10431503-spkid0-10.bin  
Link: cirrus/cs35141-dsp1-spk-prot-10431d1f-spkid0-r0.bin ->  
cs35141-dsp1-spk-prot-10431503-spkid0-r0.bin  
Link: cirrus/cs35141-dsp1-spk-cali-10431d1f-spkid0-r0.bin ->  
cs35141-dsp1-spk-cali-10431503-spkid0-r0.bin  
Link: cirrus/cs35141-dsp1-spk-prot-10431d1f-spkid1-10.bin ->  
cs35141-dsp1-spk-prot-10431503-spkid1-10.bin  
Link: cirrus/cs35141-dsp1-spk-cali-10431d1f-spkid1-10.bin ->  
cs35141-dsp1-spk-cali-10431503-spkid1-10.bin  
Link: cirrus/cs35141-dsp1-spk-prot-10431d1f-spkid1-r0.bin ->  
cs35141-dsp1-spk-prot-10431503-spkid1-r0.bin  
Link: cirrus/cs35141-dsp1-spk-cali-10431d1f-spkid1-r0.bin ->  
cs35141-dsp1-spk-cali-10431503-spkid1-r0.bin  
Link: cirrus/cs35141-dsp1-spk-prot-10431b93.wmf ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmf ->  
Link: cirrus/cs35141-dsp1-spk-cali-10431b93.wmf ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmf ->  
Link: cirrus/cs35141-dsp1-spk-prot-10431a20.wmf ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmf ->  
Link: cirrus/cs35141-dsp1-spk-cali-10431a20.wmf ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmf ->  
Link: cirrus/cs35141-dsp1-spk-prot-10431a30.wmf ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmf ->  
Link: cirrus/cs35141-dsp1-spk-cali-10431a30.wmf ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmf ->  
Link: cirrus/cs35141-dsp1-spk-prot-10431a40.wmf ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmf ->  
Link: cirrus/cs35141-dsp1-spk-cali-10431a40.wmf ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmf ->  
Link: cirrus/cs35141-dsp1-spk-prot-10431a50.wmf ->

cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spki-cali-10431a50.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spki-prot-10431a60.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spki-cali-10431a60.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
File: cirrus/cs35141-dspl-spki-prot-10431b93-spki0-10.bin  
File: cirrus/cs35141-dspl-spki-prot-10431b93-spki0-r0.bin  
File: cirrus/cs35141-dspl-spki-prot-10431b93-spki1-10.bin  
File: cirrus/cs35141-dspl-spki-prot-10431b93-spki1-r0.bin  
File: cirrus/cs35141-dspl-spki-cali-10431b93-spki0-10.bin  
File: cirrus/cs35141-dspl-spki-cali-10431b93-spki0-r0.bin  
File: cirrus/cs35141-dspl-spki-cali-10431b93-spki1-10.bin  
File: cirrus/cs35141-dspl-spki-cali-10431b93-spki1-r0.bin  
Link: cirrus/cs35141-dspl-spki-prot-10433a20-spki0-10.bin ->  
cs35141-dspl-spki-prot-10431b93-spki0-10.bin  
Link: cirrus/cs35141-dspl-spki-prot-10433a20-spki0-r0.bin ->  
cs35141-dspl-spki-prot-10431b93-spki0-r0.bin  
Link: cirrus/cs35141-dspl-spki-prot-10433a20-spki1-10.bin ->  
cs35141-dspl-spki-prot-10431b93-spki1-10.bin  
Link: cirrus/cs35141-dspl-spki-prot-10433a20-spki1-r0.bin ->  
cs35141-dspl-spki-prot-10431b93-spki1-r0.bin  
Link: cirrus/cs35141-dspl-spki-cali-10433a20-spki0-10.bin ->  
cs35141-dspl-spki-cali-10431b93-spki0-10.bin  
Link: cirrus/cs35141-dspl-spki-cali-10433a20-spki0-r0.bin ->  
cs35141-dspl-spki-cali-10431b93-spki0-r0.bin  
Link: cirrus/cs35141-dspl-spki-cali-10433a20-spki1-10.bin ->  
cs35141-dspl-spki-cali-10431b93-spki1-10.bin  
Link: cirrus/cs35141-dspl-spki-cali-10433a20-spki1-r0.bin ->  
cs35141-dspl-spki-cali-10431b93-spki1-r0.bin  
File: cirrus/cs35141-dspl-spki-prot-10433a30-spki1-10.bin  
File: cirrus/cs35141-dspl-spki-cali-10433a30-spki1-10.bin  
File: cirrus/cs35141-dspl-spki-prot-10433a30-spki1-r0.bin  
File: cirrus/cs35141-dspl-spki-cali-10433a30-spki1-r0.bin  
File: cirrus/cs35141-dspl-spki-prot-10433a30-spki0-10.bin  
File: cirrus/cs35141-dspl-spki-cali-10433a30-spki0-10.bin  
File: cirrus/cs35141-dspl-spki-prot-10433a30-spki0-r0.bin  
File: cirrus/cs35141-dspl-spki-cali-10433a30-spki0-r0.bin  
Link: cirrus/cs35141-dspl-spki-prot-10433a40-spki0-10.bin ->  
cs35141-dspl-spki-prot-10433a30-spki0-10.bin  
Link: cirrus/cs35141-dspl-spki-prot-10433a40-spki0-r0.bin ->  
cs35141-dspl-spki-prot-10433a30-spki0-r0.bin  
Link: cirrus/cs35141-dspl-spki-prot-10433a40-spki1-10.bin ->  
cs35141-dspl-spki-prot-10433a30-spki1-10.bin  
Link: cirrus/cs35141-dspl-spki-prot-10433a40-spki1-r0.bin ->  
cs35141-dspl-spki-prot-10433a30-spki1-r0.bin  
Link: cirrus/cs35141-dspl-spki-cali-10433a40-spki0-10.bin ->  
cs35141-dspl-spki-cali-10433a30-spki0-10.bin  
Link: cirrus/cs35141-dspl-spki-cali-10433a40-spki0-r0.bin ->

cs35141-dsp1-spki-cali-10433a30-spki0-r0.bin  
Link: cirrus/cs35141-dsp1-spki-cali-10433a40-spki1-10.bin ->  
cs35141-dsp1-spki-cali-10433a30-spki1-10.bin  
Link: cirrus/cs35141-dsp1-spki-cali-10433a40-spki1-r0.bin ->  
cs35141-dsp1-spki-cali-10433a30-spki1-r0.bin  
File: cirrus/cs35141-dsp1-spki-prot-10433a50-spki1-10.bin  
File: cirrus/cs35141-dsp1-spki-cali-10433a50-spki1-10.bin  
File: cirrus/cs35141-dsp1-spki-prot-10433a50-spki1-r0.bin  
File: cirrus/cs35141-dsp1-spki-cali-10433a50-spki1-r0.bin  
File: cirrus/cs35141-dsp1-spki-prot-10433a50-spki0-10.bin  
File: cirrus/cs35141-dsp1-spki-cali-10433a50-spki0-10.bin  
File: cirrus/cs35141-dsp1-spki-prot-10433a50-spki0-r0.bin  
File: cirrus/cs35141-dsp1-spki-cali-10433a50-spki0-r0.bin  
File: cirrus/cs35141-dsp1-spki-prot-10433a60-spki1-10.bin  
File: cirrus/cs35141-dsp1-spki-cali-10433a60-spki1-10.bin  
File: cirrus/cs35141-dsp1-spki-prot-10433a60-spki1-r0.bin  
File: cirrus/cs35141-dsp1-spki-cali-10433a60-spki1-r0.bin  
File: cirrus/cs35141-dsp1-spki-prot-10433a60-spki0-10.bin  
File: cirrus/cs35141-dsp1-spki-cali-10433a60-spki0-10.bin  
File: cirrus/cs35141-dsp1-spki-prot-10433a60-spki0-r0.bin  
File: cirrus/cs35141-dsp1-spki-cali-10433a60-spki0-r0.bin  
Link: cirrus/cs35141-dsp1-spki-prot-17aa2316.wmf ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmf  
Link: cirrus/cs35141-dsp1-spki-cali-17aa2316.wmf ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmf  
Link: cirrus/cs35141-dsp1-spki-prot-17aa2317.wmf ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmf  
Link: cirrus/cs35141-dsp1-spki-cali-17aa2317.wmf ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmf  
File: cirrus/cs35141-dsp1-spki-prot-17aa2316-spki0-10.bin  
File: cirrus/cs35141-dsp1-spki-prot-17aa2316-spki0-r0.bin  
File: cirrus/cs35141-dsp1-spki-prot-17aa2316-spki1-10.bin  
File: cirrus/cs35141-dsp1-spki-prot-17aa2316-spki1-r0.bin  
File: cirrus/cs35141-dsp1-spki-cali-17aa2316-spki0-10.bin  
File: cirrus/cs35141-dsp1-spki-cali-17aa2316-spki0-r0.bin  
File: cirrus/cs35141-dsp1-spki-cali-17aa2316-spki1-10.bin  
File: cirrus/cs35141-dsp1-spki-cali-17aa2316-spki1-r0.bin  
Link: cirrus/cs35141-dsp1-spki-prot-17aa2317-spki0-10.bin ->  
cs35141-dsp1-spki-prot-17aa2316-spki0-10.bin  
Link: cirrus/cs35141-dsp1-spki-prot-17aa2317-spki0-r0.bin ->  
cs35141-dsp1-spki-prot-17aa2316-spki0-r0.bin  
Link: cirrus/cs35141-dsp1-spki-prot-17aa2317-spki1-10.bin ->  
cs35141-dsp1-spki-prot-17aa2316-spki1-10.bin  
Link: cirrus/cs35141-dsp1-spki-prot-17aa2317-spki1-r0.bin ->  
cs35141-dsp1-spki-prot-17aa2316-spki1-r0.bin  
Link: cirrus/cs35141-dsp1-spki-cali-17aa2317-spki0-10.bin ->  
cs35141-dsp1-spki-cali-17aa2316-spki0-10.bin  
Link: cirrus/cs35141-dsp1-spki-cali-17aa2317-spki0-r0.bin ->  
cs35141-dsp1-spki-cali-17aa2316-spki0-r0.bin  
Link: cirrus/cs35141-dsp1-spki-cali-17aa2317-spki1-10.bin ->

cs35141-dspl-spk-cali-17aa2316-spkid1-10.bin  
Link: cirrus/cs35141-dspl-spk-cali-17aa2317-spkid1-r0.bin ->  
cs35141-dspl-spk-cali-17aa2316-spkid1-r0.bin  
Link: cirrus/cs35141-dspl-spk-prot-17aa2318.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-17aa2318.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-17aa2319.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-17aa2319.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-17aa231a.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-17aa231a.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-17aa2318-10.bin ->  
cs35141-dspl-spk-prot-17aa22f1-10.bin  
Link: cirrus/cs35141-dspl-spk-prot-17aa2318-r0.bin ->  
cs35141-dspl-spk-prot-17aa22f1-r0.bin  
Link: cirrus/cs35141-dspl-spk-cali-17aa2318-10.bin ->  
cs35141-dspl-spk-cali-17aa22f1-10.bin  
Link: cirrus/cs35141-dspl-spk-cali-17aa2318-r0.bin ->  
cs35141-dspl-spk-cali-17aa22f1-r0.bin  
Link: cirrus/cs35141-dspl-spk-prot-17aa2319-10.bin ->  
cs35141-dspl-spk-prot-17aa22f2-10.bin  
Link: cirrus/cs35141-dspl-spk-prot-17aa2319-r0.bin ->  
cs35141-dspl-spk-prot-17aa22f2-r0.bin  
Link: cirrus/cs35141-dspl-spk-cali-17aa2319-10.bin ->  
cs35141-dspl-spk-cali-17aa22f2-10.bin  
Link: cirrus/cs35141-dspl-spk-cali-17aa2319-r0.bin ->  
cs35141-dspl-spk-cali-17aa22f2-r0.bin  
Link: cirrus/cs35141-dspl-spk-prot-17aa231a-10.bin ->  
cs35141-dspl-spk-prot-17aa22f2-10.bin  
Link: cirrus/cs35141-dspl-spk-prot-17aa231a-r0.bin ->  
cs35141-dspl-spk-prot-17aa22f2-r0.bin  
Link: cirrus/cs35141-dspl-spk-cali-17aa231a-10.bin ->  
cs35141-dspl-spk-cali-17aa22f2-10.bin  
Link: cirrus/cs35141-dspl-spk-cali-17aa231a-r0.bin ->  
cs35141-dspl-spk-cali-17aa22f2-r0.bin  
Link: cirrus/cs35141-dspl-spk-prot-103c8c26.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-103c8c26.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-103c8b42.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-103c8b42.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-prot-103c8b43.wmfw ->  
cs35141/v6.61.1/halo\_cspl\_RAM\_revB2\_29.63.1.wmfw  
Link: cirrus/cs35141-dspl-spk-cali-103c8b43.wmfw ->

```
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b44.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b44.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b45.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b45.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b46.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b46.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b47.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b47.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b63.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b63.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b70.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b70.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b72.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b72.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b74.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b74.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b77.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b77.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b8f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b92.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dspl-spk-prot-103c8b42.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b42.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b43.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b43.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b44.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b44.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b45.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b45.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8b46.bin ->
```

```
cs35141-dsp1-spk-prot-103c8b45.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8b46.bin ->
cs35141-dsp1-spk-cali-103c8b45.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8b47.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8b47.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8b63-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8b63-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8b63-r1.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8b63-r1.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8b63-10.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8b63-10.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8b63-11.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8b63-11.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c8b70.bin ->
cs35141-dsp1-spk-prot-103c8b42.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8b70.bin ->
cs35141-dsp1-spk-cali-103c8b42.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c8b72.bin ->
cs35141-dsp1-spk-prot-103c8b45.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8b72.bin ->
cs35141-dsp1-spk-cali-103c8b45.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c8b74.bin ->
cs35141-dsp1-spk-prot-103c8b47.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8b74.bin ->
cs35141-dsp1-spk-cali-103c8b47.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c8b77.bin ->
cs35141-dsp1-spk-prot-103c8b45.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8b77.bin ->
cs35141-dsp1-spk-cali-103c8b45.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8b8f-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8b8f-r1.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8b8f-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8b8f-r1.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c8b8f-10.bin ->
cs35141-dsp1-spk-prot-103c8b8f-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c8b8f-11.bin ->
cs35141-dsp1-spk-prot-103c8b8f-r1.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8b8f-10.bin ->
cs35141-dsp1-spk-cali-103c8b8f-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8b8f-11.bin ->
cs35141-dsp1-spk-cali-103c8b8f-r1.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8b92.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8b92.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c8c26.bin ->
cs35141-dsp1-spk-prot-103c8b45.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8c26.bin ->
cs35141-dsp1-spk-cali-103c8b45.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cbd.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dsp1-spk-cali-10280cbd.wmf ->
```

```
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10280cbe.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10280cbe.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10280cbf.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10280cbf.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10280cc1.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10280cc1.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10280cc2.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10280cc2.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10280cc3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10280cc3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10280cc4.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10280cc4.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dspl-spk-prot-10280cbd-spkid0.bin
File: cirrus/cs35141-dspl-spk-cali-10280cbd-spkid0.bin
File: cirrus/cs35141-dspl-spk-prot-10280cbd-spkid1.bin
File: cirrus/cs35141-dspl-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cbe-spkid0.bin ->
cs35141-dspl-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-cali-10280cbe-spkid0.bin ->
cs35141-dspl-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cbe-spkid1.bin ->
cs35141-dspl-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dspl-spk-cali-10280cbe-spkid1.bin ->
cs35141-dspl-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cbf-spkid0.bin ->
cs35141-dspl-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-cali-10280cbf-spkid0.bin ->
cs35141-dspl-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cbf-spkid1.bin ->
cs35141-dspl-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dspl-spk-cali-10280cbf-spkid1.bin ->
cs35141-dspl-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cc1-spkid0.bin ->
cs35141-dspl-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-cali-10280cc1-spkid0.bin ->
cs35141-dspl-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cc1-spkid1.bin ->
```

```

cs35141-dsp1-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc1-spkid1.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cc2-spkid0.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc2-spkid0.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cc2-spkid1.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc2-spkid1.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cc3-spkid0.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc3-spkid0.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cc3-spkid1.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc3-spkid1.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cc4-spkid0.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc4-spkid0.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cc4-spkid1.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc4-spkid1.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid1.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-sr1xx - NXP Ultra Wide Band driver  
 File: nxp/sr150\_fw.bin  
 Version: 44.00.02

Licence: Redistributable. See LICENSE.nxp for details  
 Originates from <https://github.com/NXP/uwb-NXPUWB-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

Licence: Redistributable. See LICENSE.nxp for details

Originates from [https://github.com/nxp-imx/imx-firmware/tree/lf-6.1.22\\_2.0.0/nxp](https://github.com/nxp-imx/imx-firmware/tree/lf-6.1.22_2.0.0/nxp)

-----

Driver: qcom-sc8280xp - Qualcomm ASoC tplg Firmware  
 File: qcom/sc8280xp/LENOVO/21BX/audioreach-tplg.bin  
 Version: v0.1.0

Licence: Redistributable. See LICENCE.linaro for details

Originates from  
<https://git.linaro.org/people/srinivas.kandagatla/audioreach-topology.git>

=====

linux-5.10: COPYING

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lsof-4.94.0: 00README, 645-679
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lzo-2.10: src/lzo_init.c, 5-25
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```
=====
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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pixman-0.40.0: pixman/pixman-matrix.c, 1-21
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```

```
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=====
```

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```
=====
shadow-4.11.1: COPYING
=====
```

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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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```

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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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```
=====
xterm-372: xterm.h, 3-31
=====
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```
=====
xz-5.2.6: lib/getopt.c, 1-23
=====
```

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

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

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```
#ifndef _LIBC
```

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 zlib-1.2.11: zlib.h, 6-23  
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