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

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

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

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

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A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding

machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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.\"
.\" $FreeBSD: src/usr.bin/bsdiff/bsdiff/bsdiff.1,v 1.1 2005/08/06 01:59:05 cperciva Exp $
.\"
.Dd May 18, 2003
.Dt BSDIFF 1
.Os FreeBSD
.Sh NAME
.Nm bsdiff
.Nd generate a patch between two binary files
.Sh SYNOPSIS
.Nm
.Ao Ar oldfile Ac Ao Ar newfile Ac Ao Ar patchfile Ac
.Sh DESCRIPTION
.Nm
compares
.Ao Ar oldfile Ac
to
.Ao Ar newfile Ac
and writes to
.Ao Ar patchfile Ac
a binary patch suitable for use by bspatch(1).
When
.Ao Ar oldfile Ac
and
.Ao Ar newfile Ac
are two versions of an executable program, the
patches produced are on average a factor of five smaller
than those produced by any other binary patch tool known
to the author.
.Pp
.Nm
uses memory equal to 17 times the size of
.Ao Ar oldfile Ac ,
and requires
an absolute minimum working set size of 8 times the size of oldfile.
.Sh SEE ALSO
.Xr bspatch 1
.Sh AUTHORS
.An Colin Percival Aq cperciva@freebsd.org
wpa_supplicant and hostapd
---

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Kerberos Version 5, Release 1.19

Release Notes
The MIT Kerberos Team

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Documentation
---

Unified documentation for Kerberos V5 is available in both HTML and PDF formats. The table of contents of the HTML format documentation is at doc/html/index.html, and the PDF format documentation is in the doc/pdf directory.

Additionally, you may find copies of the HTML format documentation online at

https://web.mit.edu/kerberos/krb5-latest/doc/

for the most recent supported release, or at

https://web.mit.edu/kerberos/krb5-devel/doc/

for the release under development.

More information about Kerberos may be found at

https://web.mit.edu/kerberos/

and at the MIT Kerberos Consortium web site

https://kerberos.org/

Building and Installing Kerberos 5
---

Build documentation is in doc/html/build/index.html or
doc/pdf/build.pdf.

The installation guide is in doc/html/admin/install.html or
doc/pdf/install.pdf.

If you are attempting to build under Windows, please see the
src/windows/README file.

Reporting Bugs
---

Please report any problems/bugs/comments by sending email to
krb5-bugs@mit.edu.

You may view bug reports by visiting

https://krbdev.mit.edu/rt/

and using the "Guest Login" button. Please note that the web
interface to our bug database is read-only for guests, and the primary
way to interact with our bug database is via email.

Triple-DES transition
---

Beginning with the krb5-1.19 release, a warning will be issued if
initial credentials are acquired using the des3-cbc-sha1 encryption
type. In future releases, this encryption type will be disabled by
default and eventually removed.

Beginning with the krb5-1.18 release, single-DES encryption types have
been removed.

Major changes in 1.19.1 (2021-02-18)
---

This is a bug fix release.

* Fix a linking issue with Samba.

* Better support multiple pkinit_identities values by checking whether
  certificates can be loaded for each value.

krb5-1.19.1 changes by ticket ID
--------------------------------

8984  Load certs when checking pkinit_identities values
8985  Restore krb5_set_default_tgs_ktypes()
8987  Synchronize command-line option documentation

Major changes in 1.19 (2021-02-01)
----------------------------------

Administrator experience:

* When a client keytab is present, the GSSAPI krb5 mech will refresh
  credentials even if the current credentials were acquired manually.

* It is now harder to accidentally delete the K/M entry from a KDB.

Developer experience:

* gss_acquire_cred_from() now supports the "password" and "verify"
  options, allowing credentials to be acquired via password and
  verified using a keytab key.

* When an application accepts a GSS security context, the new
  GSS_C_CHANNEL_BOUND_FLAG will be set if the initiator and acceptor
  both provided matching channel bindings.

* Added the GSS_KRB5_NT_X509_CERT name type, allowing S4U2Self
  requests to identify the desired client principal by certificate.

* PKINIT certauth modules can now cause the hw-authent flag to be set
  in issued tickets.

* The krb5_init_creds_step() API will now issue the same password
  expiration warnings as krb5_get_init_creds_password().

Protocol evolution:

* Added client and KDC support for Microsoft's Resource-Based
  Constrained Delegation, which allows cross-realm S4U2Proxy requests.
  A third-party database module is required for KDC support.

* kadmin/admin is now the preferred server principal name for kadmin
  connections, and the host-based form is no longer created by
  default.  The client will still try the host-based form as a
  fallback.

* Added client and server support for Microsoft's KERB_AP_OPTIONS_CBT
  extension, which causes channel bindings to be required for the
  initiator if the acceptor provided them.  The client will send this
  option if the client_aware_gss_bindings profile option is set.

User experience:

* kinit will now issue a warning if the des3-cbc-sha1 encryption type
  is used in the reply.  This encryption type will be deprecated and
  removed in future releases.

* Added kvno flags --out-cache, --no-store, and --cached-only
  (inspired by Heimdal's kgetcred).

krb5-1.19 changes by ticket ID
------------------------------

7976  Client keytab does not refresh manually obtained ccaches
8332  Referral and cross-realm TGS requests fail with anonymous cache
8871  Zero length fields when freeing object contents
8879  Allow certauth modules to set hw-authent flag
8885  PKINIT calls responder twice
8890  Add finalization safety check to com_err
8893  Do expiration warnings for all init_creds APIs
8897  Pass gss_localname() through SPNEGO
8899  Implement GSS_C_CHANNEL_BOUND_FLAG
8900  Implement KERB_AP_OPTIONS_CBT (server side)
8901  Stop reporting krb5 mech from IAKERB
8902  Omit KDC indicator check for S4U2Self requests
8904  Add KRB5_PRINCIPAL_PARSE_NO_DEF_REALM flag
8907  Pass channel bindings through SPNEGO
8909  Return GSS_S_NO_CRED from krb5 gss_acquire_cred
8910  Building with --enable-static fails when Yasm is available
8911  Default dns_canonicalize_hostname to "fallback"
8912  Omit PA_FOR_USER if we can't compute its checksum
8913  Deleting master key principal entry shouldn't be possible
8914  Invalid negative record length in keytab file
8915  Try to find <target>-ar when cross compiling
8917  Add three kvno options from Heimdal kgetcred
8919  Interop with Heimdal KDC for S4U2Self requests
8920  Fix KDC choice to send encrypted S4U_X509_USER
8921  Use the term "primary KDC" in source and docs
8922  Trace plugin module loading errors

8923 Add GSS_KRB5_NT_X509_CERT name type
8927 getdate.y %type warnings with bison 3.5
8928 Fix three configure tests for Xcode 12
8929 Ignore bad enctypes in krb5_string_to_keysalts()
8930 Expand dns_canonicalize_host=fallback support
8931 Cache S4U2Proxy requests by second ticket
8932 Do proper length decoding in SPNEGO gss_get_oid()
8934 Try kadmin/admin first in libkadm5clnt
8935 Don't create hostbased principals in new KDBs
8937 Fix Leash console option
8940 Remove Leash import functionality
8942 Fix KRB5_GC_CACHED for S4U2Self requests
8943 Allow KDC to canonicalize realm in TGS client
8944 Harmonize macOS pack declarations with Heimdal
8946 Improve KDC alias checking for S4U requests
8947 Warn when des3-cbc-sha1 is used for initial auth
8948 Update SRV record documentation
8950 Document enctype migration
8951 Allow aliases when matching U2U second ticket
8952 Fix doc issues with newer Doxygen and Sphinx
8953 Move more KDC checks to validate_tgs_request()
8954 Update Gladman AES code to a version with a clearer license
8957 Use PKG_CHECK_MODULES for system library com_err
8961 Fix gss_acquire_cred_from() IAKERB handling
8962 Add password option to cred store
8963 Add verify option to cred store
8964 Add GSS credential store documentation
8965 Install shared libraries as executable
8966 Improve duplicate checking in gss_add_cred()
8967 Continue on KRB5_FCC_NOFILE in KCM cache iteration
8969 Update kvno(1) synopsis with missing options
8971 Implement fallback for GSS acceptor names
8973 Revert dns_canonicalize_hostname default to true
8975 Incorrect runstatedir substitution affecting "make install"

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---

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

kernel.

---

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

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

Licence: Redistributable. See LICENCE.cypress for details.

---

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

File: korg/k1212.dsp

Licence: Unknown

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

---

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

File: ess/maestro3_assp_kernel.fw
File: ess/maestro3_assp_minisrc.fw

Licence: Unknown

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

---

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

File: yamaha/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:
  Copyright (c) 1997-1999 Yamaha Corporation. All Rights Reserved.

---

Driver: advansys - AdvanSys SCSI

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

Licence: BSD, no source available.

Found in hex form in kernel source.

---

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

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

Licence: Redistributable. See LICENCE.qla1280 for details

---

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

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

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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.

Original licence information:


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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:
```
/*
 * This firmware is for the Emagic EMI 2|6 Audio Interface
 *
 * The firmware contained herein is Copyright (c) 1999-2002 Emagic
 * as an unpublished work. This notice does not imply unrestricted
 * or public access to this firmware which is a trade secret of Emagic,
 * and which may not be reproduced, used, sold or transferred to
 * any third party without Emagic's written consent. All Rights Reserved.
 *
 * Permission is hereby granted for the distribution of this firmware
 * image as part of a Linux or other Open Source operating system kernel
 * in text or binary form as required.
 *
 * 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

```
 * Copyright (C) 1999 BayCom GmbH
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that redistributions of source
 * code retain the above copyright notice and this comment without
 * modification.
```

---

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

Licence: Redistributable. See LICENCE.qla2xxx for details

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

Licence:

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Found in hex form in kernel source.

---

Driver: sxg - Alacritech IS-NIC products

File: sxg/saharadownloadB.sys
File: sxg/saharadbgdownloadB.sys

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Found in hex form in kernel source.

---

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:

```
*      Copyright (c) 2007-2009 NetLogic Microsystems, Inc.
*
*      Permission is hereby granted for the distribution of this firmware
*      data in hexadecimal or equivalent format, provided this copyright
*      notice is accompanying it.
```

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-1.26.6.0.bin
Link: cxgb4/t4fw.bin -> t4fw-1.26.6.0.bin
File: cxgb4/t5fw-1.14.4.0.bin
File: cxgb4/t5fw-1.15.37.0.bin
File: cxgb4/t5fw-1.26.6.0.bin
Link: cxgb4/t5fw.bin -> t5fw-1.26.6.0.bin
File: cxgb4/t6fw-1.26.6.0.bin
Link: cxgb4/t6fw.bin -> t6fw-1.26.6.0.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_ucode.bin
File: e100/d101s_ucode.bin
File: e100/d102e_ucode.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

Licence:

 * Firmware is:
 *	Derived from proprietary unpublished source code,
 *	Copyright (C) 2000-2013 Broadcom Corporation.
 *
 *	Permission is hereby granted for the distribution of this firmware
 *	data in hexadecimal or equivalent format, provided this copyright
 *	notice is accompanying it.


Found in hex form in kernel source.

---

Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire_rx.bin
File: adaptec/starfire_tx.bin

Licence: Allegedly GPLv2, but no source visible.

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


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---

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

File: libertas/cf8381.bin
File: libertas/cf8381_helper.bin
File: libertas/cf8385.bin
File: libertas/cf8385_helper.bin
File: libertas/gspi8682.bin
File: libertas/gspi8682_helper.bin

File: libertas/gspi8686_v9.bin
File: libertas/gspi8686_v9_helper.bin
File: libertas/gspi8688.bin
File: libertas/gspi8688_helper.bin
File: libertas/sd8385.bin
File: libertas/sd8385_helper.bin
File: libertas/sd8682.bin
File: libertas/sd8682_helper.bin
File: libertas/sd8686_v8.bin
File: libertas/sd8686_v8_helper.bin
File: libertas/sd8686_v9.bin
File: libertas/sd8686_v9_helper.bin
File: libertas/usb8388_v5.bin
File: libertas/usb8388_v9.bin
File: libertas/usb8682.bin
File: mrvl/sd8688.bin
Link: libertas/sd8688.bin -> ../mrvl/sd8688.bin
File: mrvl/sd8688_helper.bin
Link: libertas/sd8688_helper.bin -> ../mrvl/sd8688_helper.bin

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-5000-1.ucode
Version: 5.4.A.11 (aka 5.4.1.16)

File: iwlwifi-5000-2.ucode
Version: 8.24.2.12

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

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

File: iwlwifi-1000-3.ucode
Version: 128.50.3.1

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

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

File: iwlwifi-6050-4.ucode
Version: 9.201.4.1

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

File: iwlwifi-6000g2a-5.ucode
Version: 17.168.5.3

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

File: iwlwifi-6000g2b-5.ucode
Version: 17.168.5.1

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-22.ucode
Version: 22.391740.0

File: iwlwifi-7265D-27.ucode
Version: 27.541033.0

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

File: iwlwifi-3168-22.ucode
Version: 22.391740.0

File: iwlwifi-3168-27.ucode
Version: 27.541033.0

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

File: iwlwifi-8000C-22.ucode
Version: 22.391740.0

File: iwlwifi-8000C-27.ucode
Version: 27.541033.0

File: iwlwifi-8000C-31.ucode
Version: 31.560484.0

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

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

File: iwlwifi-8265-22.ucode
Version: 22.391740.0

File: iwlwifi-8265-27.ucode
Version: 27.541033.0

File: iwlwifi-8265-31.ucode
Version: 31.560484.0

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

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

File: iwlwifi-9000-pu-b0-jf-b0-33.ucode
Version: 33.610294.0

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-b0-41.ucode
Version: 41.fc1a7aea.0

File: iwlwifi-9000-pu-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0

File: iwlwifi-9000-pu-b0-jf-b0-46.ucode
Version: 46.9d0122c0.0

File: iwlwifi-9260-th-b0-jf-b0-33.ucode
Version: 33.610294.0

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-b0-41.ucode
Version: 41.fc1a7aea.0

File: iwlwifi-9260-th-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0

File: iwlwifi-9260-th-b0-jf-b0-46.ucode
Version: 46.9d0122c0.0

File: iwlwifi-cc-a0-46.ucode
Version: 46.3cfab8da.0

File: iwlwifi-cc-a0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-b0-hr-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-b0-jf-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-c0-hr-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-c0-jf-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-QuZ-a0-hr-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-QuZ-a0-jf-b0-48.ucode
Version: 48.4fa0041f.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-a0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-b0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-b0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-c0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-c0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-QuZ-a0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-QuZ-a0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-cc-a0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-b0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-b0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-c0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-c0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-jf-b0-55.ucode
Version: 55.d9698065.0

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-a0-64.ucode
Version: 64.97bbee0a.0

File: iwlwifi-so-a0-gf-a0-67.ucode
Version: 67.8f59b80b.0

File: iwlwifi-so-a0-gf4-a0-67.ucode
Version: 67.8f59b80b.0

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

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

File: iwlwifi-so-a0-hr-b0-64.ucode
Version: 64.97bbee0a.0

File: iwlwifi-so-a0-jf-b0-64.ucode
Version: 64.97bbee0a.0

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

File: iwlwifi-cc-a0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-b0-hr-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-b0-jf-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-c0-hr-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-c0-jf-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-QuZ-a0-hr-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-QuZ-a0-jf-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-ty-a0-gf-a0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-cc-a0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-cc-a0-67.ucode
Version: 67.8f59b80b.0

File: iwlwifi-Qu-b0-hr-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-b0-jf-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-c0-hr-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-c0-jf-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-QuZ-a0-hr-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-QuZ-a0-hr-b0-67.ucode
Version: 67.8f59b80b.0

File: iwlwifi-QuZ-a0-jf-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-ty-a0-gf-a0-63.ucode
Version: 63.c04f3485.0

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-ty-a0-gf-a0-67.ucode
Version: 67.8f59b80b.0

File: iwlwifi-cc-a0-68.ucode
Version: 68.01d30b0c.0

File: iwlwifi-Qu-b0-hr-b0-68.ucode
Version: 68.01d30b0c.0

File: iwlwifi-Qu-b0-jf-b0-68.ucode
Version: 68.01d30b0c.0

File: iwlwifi-Qu-c0-hr-b0-68.ucode
Version: 68.01d30b0c.0

File: iwlwifi-Qu-c0-jf-b0-68.ucode
Version: 68.01d30b0c.0

File: iwlwifi-QuZ-a0-hr-b0-68.ucode
Version: 68.01d30b0c.0

File: iwlwifi-QuZ-a0-jf-b0-68.ucode
Version: 68.01d30b0c.0

File: iwlwifi-ty-a0-gf-a0-68.ucode
Version: 68.01d30b0c.0

File: iwlwifi-so-a0-gf4-a0-68.ucode
Version: 68.01d30b0c.0

File: iwlwifi-so-a0-gf-a0-68.ucode
Version: 68.01d30b0c.0

File: iwlwifi-so-a0-hr-b0-68.ucode
Version: 68.01d30b0c.0

File: iwlwifi-so-a0-jf-b0-68.ucode
Version: 68.01d30b0c.0

File: iwlwifi-cc-a0-71.ucode
Version: 71.058653f6.0

File: iwlwifi-Qu-b0-hr-b0-71.ucode
Version: 71.058653f6.0

File: iwlwifi-Qu-b0-jf-b0-71.ucode
Version: 71.058653f6.0

File: iwlwifi-Qu-c0-hr-b0-71.ucode
Version: 71.058653f6.0

File: iwlwifi-Qu-c0-jf-b0-71.ucode
Version: 71.058653f6.0

File: iwlwifi-QuZ-a0-hr-b0-71.ucode
Version: 71.058653f6.0

File: iwlwifi-QuZ-a0-jf-b0-71.ucode
Version: 71.058653f6.0

File: iwlwifi-ty-a0-gf-a0-71.ucode
Version: 71.058653f6.0

File: iwlwifi-so-a0-gf4-a0-71.ucode
Version: 71.058653f6.0

File: iwlwifi-so-a0-gf-a0-71.ucode
Version: 71.058653f6.0

File: iwlwifi-so-a0-hr-b0-71.ucode
Version: 71.058653f6.0

File: iwlwifi-so-a0-jf-b0-71.ucode
Version: 71.058653f6.0

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-so-a0-gf-a0.pnvm

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

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

Licence: Redistributable. See LICENCE.iwlwifi_firmware for details

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

---

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

File: intel/irci_irci_ecr-master_20161208_0213_20170112_1500.bin
Version: irci_irci_ecr-master_20161208_0213_20170112_1500
md5sum: 59abc311fce49c5a180b5a8a3917912d
Link: intel/ipu3-fw.bin -> irci_irci_ecr-master_20161208_0213_20170112_1500.bin

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---

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

File: v4l-cx231xx-avcore-01.fw

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---

Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

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---

Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

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```

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---

Driver: yam - YAM driver for AX.25

File: yam/1200.bin
File: yam/9600.bin

Licence:
```
 * (C) F6FBB 1998
```

Found in hex form in kernel source.

---

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter

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

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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---

Driver: 3c589_cs - 3Com PCMCIA adapter

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

Licence: Dual GPLv2/MPL

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---

Driver: 3c574_cs - 3Com PCMCIA adapter

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

Licence: Dual GPLv2/MPL

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---

Driver: serial_cs - Serial PCMCIA adapter

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

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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---

Driver: serial_cs - Serial PCMCIA adapter

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

Licence: GPLv3. See GPL-3 for details.

Copyright Sierra Wireless

---

Driver: smc91c92_cs - SMC 91Cxx PCMCIA

File: ositech/Xilinx7OD.bin

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

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---

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

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

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---

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

File: v4l-cx23885-avcore-01.fw

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Driver: cx23840 - Conexant sideport Broadcast A/V decoder

File: v4l-cx25840.fw

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---

Driver: 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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---

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

File: phanfw.bin
Version: 4.0.590

Licence: Redistributable. See LICENCE.phanfw for details.

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

---

Driver: dvb-ttpci -- AV7110 cards

File: av7110/bootcode.bin
Source: av7110/Boot.S
Source: av7110/Makefile

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

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

---

Driver: snd-wavefront - ISA WaveFront sound card

File: yamaha/yss225_registers.bin

Licence: Allegedly GPLv2+, but no source visible.

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

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

File: rt2561.bin
File: rt2561s.bin
File: rt2661.bin

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

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

---

Driver: rt73usb - Ralink RT2571W, RT2671 wireless MACs

File: rt73.bin

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

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

---

Driver: mt7601u - MediaTek MT7601U Wireless MACs

File: mt7601u.bin
Version: 34

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

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

---

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

File: rt2860.bin
Version: 40

File: rt3290.bin
Version: 37

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

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

---

Driver: rt2860sta - Ralink RT3090 wireless MACs

Link: rt3090.bin -> rt2860.bin

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

---

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

File: rt2870.bin
Version: 36

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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: usbdux/usbduxfast/usbduxsigma - usbdux data acquisition cards

File: usbdux_firmware.bin
File: usbduxfast_firmware.bin
File: usbduxsigma_firmware.bin
Source: usbdux/

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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---

Driver: r128 - ATI Rage 128

File: r128/r128_cce.bin

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Found in decimal form in kernel source.

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Driver: radeon - ATI Radeon

File: radeon/R100_cp.bin
File: radeon/R200_cp.bin
File: radeon/R300_cp.bin
File: radeon/R420_cp.bin
File: radeon/RS600_cp.bin
File: radeon/RS690_cp.bin
File: radeon/R520_cp.bin
File: radeon/R600_pfp.bin
File: radeon/R600_me.bin
File: radeon/RV610_pfp.bin
File: radeon/RV610_me.bin
File: radeon/RV630_pfp.bin
File: radeon/RV630_me.bin
File: radeon/RV620_pfp.bin

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

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Found in hex form in kernel source.

---

Driver: radeon - ATI Radeon

File: radeon/R600_rlc.bin
File: radeon/R600_uvd.bin
File: radeon/RS780_uvd.bin
File: radeon/R700_rlc.bin

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

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

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

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

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

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Driver: amdgpu - AMD Radeon

File: amdgpu/tahiti_ce.bin
File: amdgpu/tahiti_k_smc.bin
File: amdgpu/tahiti_mc.bin
File: amdgpu/tahiti_me.bin
File: amdgpu/tahiti_pfp.bin
File: amdgpu/tahiti_rlc.bin
File: amdgpu/tahiti_smc.bin
File: amdgpu/tahiti_uvd.bin
File: amdgpu/pitcairn_ce.bin
File: amdgpu/pitcairn_k_smc.bin
File: amdgpu/pitcairn_mc.bin
File: amdgpu/pitcairn_me.bin
File: amdgpu/pitcairn_pfp.bin
File: amdgpu/pitcairn_rlc.bin
File: amdgpu/pitcairn_smc.bin
File: amdgpu/pitcairn_uvd.bin
File: amdgpu/verde_ce.bin

File: amdgpu/verde_k_smc.bin
File: amdgpu/verde_mc.bin
File: amdgpu/verde_me.bin
File: amdgpu/verde_pfp.bin
File: amdgpu/verde_rlc.bin
File: amdgpu/verde_smc.bin
File: amdgpu/verde_uvd.bin
File: amdgpu/hainan_ce.bin
File: amdgpu/hainan_k_smc.bin
File: amdgpu/hainan_mc.bin
File: amdgpu/hainan_me.bin
File: amdgpu/hainan_pfp.bin
File: amdgpu/hainan_rlc.bin
File: amdgpu/hainan_smc.bin
File: amdgpu/oland_ce.bin
File: amdgpu/oland_k_smc.bin
File: amdgpu/oland_mc.bin
File: amdgpu/oland_me.bin
File: amdgpu/oland_pfp.bin
File: amdgpu/oland_rlc.bin
File: amdgpu/oland_smc.bin
File: amdgpu/oland_uvd.bin
File: amdgpu/si58_mc.bin
File: amdgpu/banks_k_2_smc.bin
File: amdgpu/bonaire_ce.bin
File: amdgpu/bonaire_k_smc.bin
File: amdgpu/bonaire_mc.bin
File: amdgpu/bonaire_me.bin
File: amdgpu/bonaire_mec.bin
File: amdgpu/bonaire_pfp.bin
File: amdgpu/bonaire_rlc.bin
File: amdgpu/bonaire_sdma.bin
File: amdgpu/bonaire_sdma1.bin
File: amdgpu/bonaire_smc.bin
File: amdgpu/bonaire_uvd.bin
File: amdgpu/bonaire_vce.bin
File: amdgpu/hawaii_ce.bin
File: amdgpu/hawaii_k_smc.bin
File: amdgpu/hawaii_mc.bin
File: amdgpu/hawaii_me.bin
File: amdgpu/hawaii_mec.bin
File: amdgpu/hawaii_pfp.bin
File: amdgpu/hawaii_rlc.bin
File: amdgpu/hawaii_sdma.bin
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
File: amdgpu/tonga_me.bin
File: amdgpu/tonga_mec2.bin
File: amdgpu/tonga_mec.bin
File: amdgpu/tonga_pfp.bin
File: amdgpu/tonga_rlc.bin
File: amdgpu/tonga_sdma1.bin

File: amdgpu/tonga_sdma.bin
File: amdgpu/tonga_smc.bin
File: amdgpu/tonga_uvd.bin
File: amdgpu/tonga_vce.bin
File: amdgpu/carrizo_ce.bin
File: amdgpu/carrizo_me.bin
File: amdgpu/carrizo_mec2.bin
File: amdgpu/carrizo_mec.bin
File: amdgpu/carrizo_pfp.bin
File: amdgpu/carrizo_rlc.bin
File: amdgpu/carrizo_sdma1.bin
File: amdgpu/carrizo_sdma.bin
File: amdgpu/carrizo_uvd.bin
File: amdgpu/carrizo_vce.bin
File: amdgpu/fiji_ce.bin
File: amdgpu/fiji_mc.bin
File: amdgpu/fiji_me.bin
File: amdgpu/fiji_mec2.bin
File: amdgpu/fiji_mec.bin
File: amdgpu/fiji_pfp.bin
File: amdgpu/fiji_rlc.bin
File: amdgpu/fiji_sdma1.bin
File: amdgpu/fiji_sdma.bin
File: amdgpu/fiji_smc.bin
File: amdgpu/fiji_uvd.bin
File: amdgpu/fiji_vce.bin
File: amdgpu/stoney_ce.bin
File: amdgpu/stoney_me.bin
File: amdgpu/stoney_mec.bin
File: amdgpu/stoney_pfp.bin
File: amdgpu/stoney_rlc.bin
File: amdgpu/stoney_sdma.bin
File: amdgpu/stoney_uvd.bin
File: amdgpu/stoney_vce.bin
File: amdgpu/polaris10_ce.bin
File: amdgpu/polaris10_ce_2.bin
File: amdgpu/polaris10_mc.bin
File: amdgpu/polaris10_k_mc.bin
File: amdgpu/polaris10_me.bin
File: amdgpu/polaris10_me_2.bin
File: amdgpu/polaris10_mec2.bin
File: amdgpu/polaris10_mec2_2.bin
File: amdgpu/polaris10_mec.bin
File: amdgpu/polaris10_mec_2.bin
File: amdgpu/polaris10_pfp.bin
File: amdgpu/polaris10_pfp_2.bin
File: amdgpu/polaris10_rlc.bin
File: amdgpu/polaris10_sdma1.bin

File: amdgpu/polaris10_sdma.bin
File: amdgpu/polaris10_smc.bin
File: amdgpu/polaris10_k_smc.bin
File: amdgpu/polaris10_k2_smc.bin
File: amdgpu/polaris10_smc_sk.bin
File: amdgpu/polaris10_uvd.bin
File: amdgpu/polaris10_vce.bin
File: amdgpu/polaris11_ce.bin
File: amdgpu/polaris11_ce_2.bin
File: amdgpu/polaris11_mc.bin
File: amdgpu/polaris11_k_mc.bin
File: amdgpu/polaris11_me.bin
File: amdgpu/polaris11_me_2.bin
File: amdgpu/polaris11_mec2.bin
File: amdgpu/polaris11_mec2_2.bin
File: amdgpu/polaris11_mec.bin
File: amdgpu/polaris11_mec_2.bin
File: amdgpu/polaris11_pfp.bin
File: amdgpu/polaris11_pfp_2.bin
File: amdgpu/polaris11_rlc.bin
File: amdgpu/polaris11_sdma1.bin
File: amdgpu/polaris11_sdma.bin
File: amdgpu/polaris11_smc.bin
File: amdgpu/polaris11_k_smc.bin
File: amdgpu/polaris11_k2_smc.bin
File: amdgpu/polaris11_smc_sk.bin
File: amdgpu/polaris11_uvd.bin
File: amdgpu/polaris11_vce.bin
File: amdgpu/polaris12_ce.bin
File: amdgpu/polaris12_ce_2.bin
File: amdgpu/polaris12_mc.bin
File: amdgpu/polaris12_k_mc.bin
File: amdgpu/polaris12_32_mc.bin
File: amdgpu/polaris12_me.bin
File: amdgpu/polaris12_me_2.bin
File: amdgpu/polaris12_mec.bin
File: amdgpu/polaris12_mec_2.bin
File: amdgpu/polaris12_mec2.bin
File: amdgpu/polaris12_mec2_2.bin
File: amdgpu/polaris12_pfp.bin
File: amdgpu/polaris12_pfp_2.bin
File: amdgpu/polaris12_rlc.bin
File: amdgpu/polaris12_sdma.bin
File: amdgpu/polaris12_sdma1.bin
File: amdgpu/polaris12_smc.bin
File: amdgpu/polaris12_k_smc.bin
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File: amdgpu/polaris12_vce.bin

File: amdgpu/vegam_ce.bin
File: amdgpu/vegam_me.bin
File: amdgpu/vegam_mec.bin
File: amdgpu/vegam_mec2.bin
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File: amdgpu/vegam_rlc.bin
File: amdgpu/vegam_sdma.bin
File: amdgpu/vegam_sdma1.bin
File: amdgpu/vegam_smc.bin
File: amdgpu/vegam_uvd.bin
File: amdgpu/vegam_vce.bin
File: amdgpu/vega10_acg_smc.bin
File: amdgpu/vega10_asd.bin
File: amdgpu/vega10_ce.bin
File: amdgpu/vega10_gpu_info.bin
File: amdgpu/vega10_me.bin
File: amdgpu/vega10_mec.bin
File: amdgpu/vega10_mec2.bin
File: amdgpu/vega10_pfp.bin
File: amdgpu/vega10_rlc.bin
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File: amdgpu/vega10_sdma1.bin
File: amdgpu/vega10_smc.bin
File: amdgpu/vega10_sos.bin
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File: amdgpu/vega10_vce.bin
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File: amdgpu/vega12_ce.bin
File: amdgpu/vega12_gpu_info.bin
File: amdgpu/vega12_me.bin
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File: amdgpu/vega12_vce.bin
File: amdgpu/vega20_asd.bin
File: amdgpu/vega20_ce.bin
File: amdgpu/vega20_me.bin
File: amdgpu/vega20_mec.bin
File: amdgpu/vega20_mec2.bin
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File: amdgpu/vega20_sdma.bin

File: amdgpu/vega20_sdma1.bin
File: amdgpu/vega20_smc.bin
File: amdgpu/vega20_sos.bin
File: amdgpu/vega20_uvd.bin
File: amdgpu/vega20_vce.bin
File: amdgpu/vega20_ta.bin
File: amdgpu/raven_asd.bin
File: amdgpu/raven_ce.bin
File: amdgpu/raven_gpu_info.bin
File: amdgpu/raven_me.bin
File: amdgpu/raven_mec.bin
File: amdgpu/raven_mec2.bin
File: amdgpu/raven_pfp.bin
File: amdgpu/raven_rlc.bin
File: amdgpu/raven_sdma.bin
File: amdgpu/raven_vcn.bin
File: amdgpu/raven_dmcu.bin
File: amdgpu/raven_kicker_rlc.bin
File: amdgpu/raven_ta.bin
File: amdgpu/picasso_asd.bin
File: amdgpu/picasso_ce.bin
File: amdgpu/picasso_gpu_info.bin
File: amdgpu/picasso_me.bin
File: amdgpu/picasso_mec.bin
File: amdgpu/picasso_mec2.bin
File: amdgpu/picasso_pfp.bin
File: amdgpu/picasso_rlc.bin
File: amdgpu/picasso_rlc_am4.bin
File: amdgpu/picasso_sdma.bin
File: amdgpu/picasso_vcn.bin
File: amdgpu/picasso_ta.bin
File: amdgpu/raven2_asd.bin
File: amdgpu/raven2_ce.bin
File: amdgpu/raven2_gpu_info.bin
File: amdgpu/raven2_me.bin
File: amdgpu/raven2_mec.bin
File: amdgpu/raven2_mec2.bin
File: amdgpu/raven2_pfp.bin
File: amdgpu/raven2_rlc.bin
File: amdgpu/raven2_sdma.bin
File: amdgpu/raven2_vcn.bin
File: amdgpu/raven2_ta.bin
File: amdgpu/navi10_asd.bin
File: amdgpu/navi10_ce.bin
File: amdgpu/navi10_gpu_info.bin
File: amdgpu/navi10_me.bin
File: amdgpu/navi10_mec.bin
File: amdgpu/navi10_mec2.bin

File: amdgpu/navi10_pfp.bin
File: amdgpu/navi10_rlc.bin
File: amdgpu/navi10_sdma.bin
File: amdgpu/navi10_sdma1.bin
File: amdgpu/navi10_smc.bin
File: amdgpu/navi10_sos.bin
File: amdgpu/navi10_vcn.bin
File: amdgpu/navi10_ta.bin
File: amdgpu/navi14_asd.bin
File: amdgpu/navi14_ce.bin
File: amdgpu/navi14_ce_wks.bin
File: amdgpu/navi14_gpu_info.bin
File: amdgpu/navi14_me.bin
File: amdgpu/navi14_me_wks.bin
File: amdgpu/navi14_mec.bin
File: amdgpu/navi14_mec_wks.bin
File: amdgpu/navi14_mec2.bin
File: amdgpu/navi14_mec2_wks.bin
File: amdgpu/navi14_pfp.bin
File: amdgpu/navi14_pfp_wks.bin
File: amdgpu/navi14_rlc.bin
File: amdgpu/navi14_sdma.bin
File: amdgpu/navi14_sdma1.bin
File: amdgpu/navi14_smc.bin
File: amdgpu/navi14_sos.bin
File: amdgpu/navi14_vcn.bin
File: amdgpu/navi14_ta.bin
File: amdgpu/navi12_asd.bin
File: amdgpu/navi12_ce.bin
File: amdgpu/navi12_dmcu.bin
File: amdgpu/navi12_gpu_info.bin
File: amdgpu/navi12_me.bin
File: amdgpu/navi12_mec.bin
File: amdgpu/navi12_mec2.bin
File: amdgpu/navi12_pfp.bin
File: amdgpu/navi12_rlc.bin
File: amdgpu/navi12_sdma.bin
File: amdgpu/navi12_sdma1.bin
File: amdgpu/navi12_smc.bin
File: amdgpu/navi12_sos.bin
File: amdgpu/navi12_vcn.bin
File: amdgpu/navi12_ta.bin
File: amdgpu/renoir_asd.bin
File: amdgpu/renoir_ce.bin
File: amdgpu/renoir_gpu_info.bin
File: amdgpu/renoir_me.bin
File: amdgpu/renoir_mec.bin
File: amdgpu/renoir_mec2.bin

File: amdgpu/renoir_pfp.bin
File: amdgpu/renoir_rlc.bin
File: amdgpu/renoir_sdma.bin
File: amdgpu/renoir_vcn.bin
File: amdgpu/renoir_dmcub.bin
File: amdgpu/renoir_ta.bin
File: amdgpu/sienna_cichlid_ce.bin
File: amdgpu/sienna_cichlid_dmcub.bin
File: amdgpu/sienna_cichlid_me.bin
File: amdgpu/sienna_cichlid_mec.bin
File: amdgpu/sienna_cichlid_mec2.bin
File: amdgpu/sienna_cichlid_pfp.bin
File: amdgpu/sienna_cichlid_rlc.bin
File: amdgpu/sienna_cichlid_sdma.bin
File: amdgpu/sienna_cichlid_smc.bin
File: amdgpu/sienna_cichlid_sos.bin
File: amdgpu/sienna_cichlid_ta.bin
File: amdgpu/sienna_cichlid_vcn.bin
File: amdgpu/green_sardine_asd.bin
File: amdgpu/green_sardine_ce.bin
File: amdgpu/green_sardine_dmcub.bin
File: amdgpu/green_sardine_me.bin
File: amdgpu/green_sardine_mec2.bin
File: amdgpu/green_sardine_mec.bin
File: amdgpu/green_sardine_pfp.bin
File: amdgpu/green_sardine_rlc.bin
File: amdgpu/green_sardine_sdma.bin
File: amdgpu/green_sardine_ta.bin
File: amdgpu/green_sardine_vcn.bin
File: amdgpu/navy_flounder_ce.bin
File: amdgpu/navy_flounder_dmcub.bin
File: amdgpu/navy_flounder_me.bin
File: amdgpu/navy_flounder_mec.bin
File: amdgpu/navy_flounder_mec2.bin
File: amdgpu/navy_flounder_pfp.bin
File: amdgpu/navy_flounder_rlc.bin
File: amdgpu/navy_flounder_sdma.bin
File: amdgpu/navy_flounder_smc.bin
File: amdgpu/navy_flounder_sos.bin
File: amdgpu/navy_flounder_ta.bin
File: amdgpu/navy_flounder_vcn.bin
File: amdgpu/arcturus_asd.bin
File: amdgpu/arcturus_gpu_info.bin
File: amdgpu/arcturus_mec2.bin
File: amdgpu/arcturus_mec.bin
File: amdgpu/arcturus_rlc.bin
File: amdgpu/arcturus_sdma.bin
File: amdgpu/arcturus_smc.bin

File: amdgpu/arcturus_sos.bin
File: amdgpu/arcturus_ta.bin
File: amdgpu/arcturus_vcn.bin
File: amdgpu/dimgrey_cavefish_ce.bin
File: amdgpu/dimgrey_cavefish_dmcub.bin
File: amdgpu/dimgrey_cavefish_me.bin
File: amdgpu/dimgrey_cavefish_mec.bin
File: amdgpu/dimgrey_cavefish_mec2.bin
File: amdgpu/dimgrey_cavefish_pfp.bin
File: amdgpu/dimgrey_cavefish_rlc.bin
File: amdgpu/dimgrey_cavefish_sdma.bin
File: amdgpu/dimgrey_cavefish_smc.bin
File: amdgpu/dimgrey_cavefish_sos.bin
File: amdgpu/dimgrey_cavefish_ta.bin
File: amdgpu/dimgrey_cavefish_vcn.bin
File: amdgpu/vangogh_asd.bin
File: amdgpu/vangogh_ce.bin
File: amdgpu/vangogh_dmcub.bin
File: amdgpu/vangogh_me.bin
File: amdgpu/vangogh_mec2.bin
File: amdgpu/vangogh_mec.bin
File: amdgpu/vangogh_pfp.bin
File: amdgpu/vangogh_rlc.bin
File: amdgpu/vangogh_sdma.bin
File: amdgpu/vangogh_toc.bin
File: amdgpu/vangogh_vcn.bin
File: amdgpu/yellow_carp_asd.bin
File: amdgpu/yellow_carp_ce.bin
File: amdgpu/yellow_carp_dmcub.bin
File: amdgpu/yellow_carp_me.bin
File: amdgpu/yellow_carp_mec.bin
File: amdgpu/yellow_carp_mec2.bin
File: amdgpu/yellow_carp_pfp.bin
File: amdgpu/yellow_carp_rlc.bin
File: amdgpu/yellow_carp_sdma.bin
File: amdgpu/yellow_carp_ta.bin
File: amdgpu/yellow_carp_toc.bin
File: amdgpu/yellow_carp_vcn.bin
File: amdgpu/beige_goby_ce.bin
File: amdgpu/beige_goby_dmcub.bin
File: amdgpu/beige_goby_me.bin
File: amdgpu/beige_goby_mec.bin
File: amdgpu/beige_goby_mec2.bin
File: amdgpu/beige_goby_pfp.bin
File: amdgpu/beige_goby_rlc.bin
File: amdgpu/beige_goby_sdma.bin
File: amdgpu/beige_goby_smc.bin
File: amdgpu/beige_goby_sos.bin

File: amdgpu/beige_goby_ta.bin
File: amdgpu/beige_goby_vcn.bin
File: amdgpu/cyan_skillfish2_ce.bin
File: amdgpu/cyan_skillfish2_me.bin
File: amdgpu/cyan_skillfish2_mec.bin
File: amdgpu/cyan_skillfish2_mec2.bin
File: amdgpu/cyan_skillfish2_pfp.bin
File: amdgpu/cyan_skillfish2_rlc.bin
File: amdgpu/cyan_skillfish2_sdma.bin
File: amdgpu/cyan_skillfish2_sdma1.bin
File: amdgpu/aldebaran_mec2.bin
File: amdgpu/aldebaran_mec.bin
File: amdgpu/aldebaran_rlc.bin
File: amdgpu/aldebaran_sdma.bin
File: amdgpu/aldebaran_smc.bin
File: amdgpu/aldebaran_sos.bin
File: amdgpu/aldebaran_ta.bin
File: amdgpu/aldebaran_vcn.bin
File: amdgpu/gc_10_3_6_ce.bin
File: amdgpu/gc_10_3_6_me.bin
File: amdgpu/gc_10_3_6_mec.bin
File: amdgpu/gc_10_3_6_mec2.bin
File: amdgpu/gc_10_3_6_pfp.bin
File: amdgpu/gc_10_3_6_rlc.bin
File: amdgpu/gc_10_3_7_ce.bin
File: amdgpu/gc_10_3_7_me.bin
File: amdgpu/gc_10_3_7_mec.bin
File: amdgpu/gc_10_3_7_mec2.bin
File: amdgpu/gc_10_3_7_pfp.bin
File: amdgpu/gc_10_3_7_rlc.bin
File: amdgpu/dcn_3_1_5_dmcub.bin
File: amdgpu/dcn_3_1_6_dmcub.bin
File: amdgpu/psp_13_0_5_asd.bin
File: amdgpu/psp_13_0_5_ta.bin
File: amdgpu/psp_13_0_5_toc.bin
File: amdgpu/psp_13_0_8_asd.bin
File: amdgpu/psp_13_0_8_ta.bin
File: amdgpu/psp_13_0_8_toc.bin
File: amdgpu/sdma_5_2_6.bin
File: amdgpu/sdma_5_2_7.bin
File: amdgpu/vcn_3_1_2.bin

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Driver: s2255drv

File: f2255usb.bin
Version: 1.2.8

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Driver: rtl8192e - Realtek 8192 PCI wireless driver

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

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

---

Driver: lgs8gxx - Legend Silicon GB20600 demodulator driver

File: lgs8g75.fw

Licence: Unknown

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Driver: ib_qib - QLogic Infiniband

File: qlogic/sd7220.fw

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```
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```

Found in hex form in kernel source.

---

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

File: qed/qed_init_values_zipped-8.4.2.0.bin
File: qed/qed_init_values_zipped-8.7.3.0.bin
File: qed/qed_init_values_zipped-8.10.5.0.bin
File: qed/qed_init_values-8.10.9.0.bin
File: qed/qed_init_values_zipped-8.10.10.0.bin
File: qed/qed_init_values-8.14.6.0.bin
File: qed/qed_init_values_zipped-8.15.3.0.bin
File: qed/qed_init_values-8.18.9.0.bin
File: qed/qed_init_values_zipped-8.20.0.0.bin
File: qed/qed_init_values-8.20.0.0.bin
File: qed/qed_init_values-8.30.12.0.bin
File: qed/qed_init_values_zipped-8.33.1.0.bin
File: qed/qed_init_values_zipped-8.33.11.0.bin
File: qed/qed_init_values-8.33.12.0.bin
File: qed/qed_init_values_zipped-8.37.2.0.bin
File: qed/qed_init_values_zipped-8.37.7.0.bin
File: qed/qed_init_values-8.37.7.0.bin
File: qed/qed_init_values-8.40.33.0.bin
File: qed/qed_init_values_zipped-8.42.2.0.bin
File: qed/qed_init_values_zipped-8.59.1.0.bin

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

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

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

---

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

File: ueagle-atm/930-fpga.bin
File: ueagle-atm/CMVeiWO.bin
File: ueagle-atm/CMVepFR10.bin
File: ueagle-atm/DSP9p.bin
File: ueagle-atm/eagleIII.fw
File: ueagle-atm/adi930.fw
File: ueagle-atm/CMVep.bin
File: ueagle-atm/CMVepFR.bin
File: ueagle-atm/DSPei.bin
File: ueagle-atm/CMV9i.bin
File: ueagle-atm/CMVepES03.bin
File: ueagle-atm/CMVepIT.bin
File: ueagle-atm/DSPep.bin
File: ueagle-atm/CMV9p.bin
File: ueagle-atm/CMVepES.bin
File: ueagle-atm/CMVepWO.bin
File: ueagle-atm/eagleI.fw
File: ueagle-atm/CMVei.bin
File: ueagle-atm/CMVepFR04.bin
File: ueagle-atm/DSP9i.bin
File: ueagle-atm/eagleII.fw
Version: 1.1

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

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

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

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---

Driver: brcmsmac - 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.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.cubietech,cubietruck.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
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.Xiaomi Inc-Mipad2.txt"
File: brcm/brcmfmac4356-sdio.AP6356S.txt
Link: brcm/brcmfmac4356-sdio.firefly,firefly-rk3399.txt -> brcmfmac4356-sdio.AP6356S.txt
Link: brcm/brcmfmac4356-sdio.khadas,vim2.txt -> brcmfmac4356-sdio.AP6356S.txt
Link: brcm/brcmfmac4356-sdio.vamrs,rock960.txt -> brcmfmac4356-sdio.AP6356S.txt
File: brcm/brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.beagle,am5729-beagleboneai.txt -> brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,pinebook-pro.txt -> brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,pinephone-pro.txt -> brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,quartz64-b.txt -> brcmfmac43455-sdio.AW-CM256SM.txt

Licence: GPLv2. See GPL-2 for details.

---

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

File: ti/vpdma-1b8.bin

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

---

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

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

File: ti-connectivity/wl1251-nvs.bin

Licence: Redistributable. See LICENCE.wl1251 for details.

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

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

---

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

File: ti-connectivity/wl1271-fw.bin
Version: 6.1.0.50.350 (STA-only)
File: ti-connectivity/wl1271-fw-2.bin
Version: 6.1.5.50.74 (STA-only)

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

File: ti-connectivity/wl128x-fw.bin
Version: 7.1.5.50.74 (STA-only)
File: ti-connectivity/wl128x-fw-ap.bin
Version: 7.2.1.0.54 (AP-only)
File: ti-connectivity/wl128x-fw-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-plt-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-4-sr.bin
Version: 7.3.5.0.98 (Single-role)
File: ti-connectivity/wl128x-fw-4-mr.bin
Version: 7.5.2.0.15 (Multi-role)
File: ti-connectivity/wl128x-fw-4-plt.bin
Version: 7.3.5.0.98 (PLT)
File: ti-connectivity/wl128x-fw-5-sr.bin
Version: 7.3.10.0.142 (Single-role)
File: ti-connectivity/wl128x-fw-5-mr.bin
Version: 7.5.7.0.50 (Multi-role)
File: ti-connectivity/wl128x-fw-5-plt.bin
Version: 7.3.10.2.142 (PLT-only)

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

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

The NVS file includes two parts:

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

The published NVS files are for testing only. Every device needs to hava 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.

Telegent System grants permission to use and redistribute these
firmware files for use with devices containing the chip tlg2300, but
not as a part of the Linux kernel or in any other form which would
require these files themselves to be covered by the terms of the GNU
General Public License. These firmware files are distributed in the
hope that they will be useful, but WITHOUT ANY WARRANTY; without even
the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
PURPOSE.

---

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
File: rtlwifi/rtl8723defw.bin

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

---

Driver: r8723au - Realtek 802.11n WLAN driver for RTL8723AU

Info: 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

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

---

Driver: rtl8188ee - Realtek 802.11n WLAN driver for RTL8188EE

Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_88ee_linux_mac80211_0010.0109.2013
File: rtlwifi/rtl8188efw.bin

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

---

Driver: rtl8188eu - Realtek 802.11n WLAN driver for RTL8188EU

Info: Taken from Realtek version RTL8188EUS_linux_v4.1.4_6773.20130222
File: rtlwifi/rtl8188eufw.bin

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

---

Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8812AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8812aefw.bin
File: rtlwifi/rtl8812aefw_wowlan.bin

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

---

Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8821aefw.bin
File: rtlwifi/rtl8821aefw_wowlan.bin
Info: Update to version 29 - Sent by Realtek
File: rtlwifi/rtl8821aefw_29.bin

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

---

Driver: rtl8822be - Realtek 802.11n WLAN driver for RTL8822BE

Info: Sent to Larry Finger by Realtek engineer Ping-Ke Shih <pkshih@realtek.com>
File: rtlwifi/rtl8822befw.bin

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

---

Driver: rtw88 - Realtek 802.11ac WLAN driver for RTL8822BE and RTL8822CE

Info: Sent to Larry Finger by Realtek engineer Yan-Hsuan Chuang <yhchuang@realtek.com>
File: rtw88/rtw8822b_fw.bin
File: rtw88/rtw8822c_fw.bin
File: rtw88/rtw8822c_wow_fw.bin
File: rtw88/README
File: rtw88/rtw8723d_fw.bin
File: rtw88/rtw8821c_fw.bin

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

These firmware should be put under /lib/firmware/rtw88/
And note that the rtw88 driver is able to support wake-on-wireless LAN
for RTL8822C devices, after kernel v5.6+. So, make sure the firmware
rtw88/rtw8822c_wow_fw.bin is also packed, otherwise the firmware load
fail could be a problem.
Although RTL8723D devices are 802.11n device, they are also supported
by rtw88 because the hardware arch is similar.

---

Driver: rtw89 - Realtek 802.11ax WLAN driver for RTL8852A

File: rtw89/rtw8852a_fw.bin
File: rtw89/rtw8852c_fw.bin

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

---

Driver: rtl8192ee - Realtek 802.11n WLAN driver for RTL8192EE

Info: Initial version taken from Realtek version
    rtl_92ce_92se_92de_8723ae_88ee_8723be_92ee_linux_mac80211_0017.1224.2013
    Updated Jan. 14, 2015 with file added by Realtek to
    http://github.com/lwfinger/rtlwifi_new.git.
    Same firmware rtl8192eu_nic.bin so just link them
Link: rtlwifi/rtl8192eefw.bin -> rtl8192eu_nic.bin

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

---

Driver: rtl8723bs - Realtek 802.11n WLAN driver for RTL8723BS

Info: Firmware files extracted from data statements in Realtek driver
    v4.3.5.5_12290.20140916_BTCOEX20140507-4E40.
File: rtlwifi/rtl8723bs_bt.bin
Link: rtlwifi/rtl8723bs_nic.bin -> rtl8723bu_nic.bin
Link: rtlwifi/rtl8723bs_ap_wowlan.bin -> rtl8723bu_ap_wowlan.bin
Link: rtlwifi/rtl8723bs_wowlan.bin -> rtl8723bu_wowlan.bin

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

---

Driver: rtl8xxxu - Realtek 802.11n WLAN driver for RTL8XXX USB devices

Info: rtl8723au taken from Realtek driver
    rtl8723A_WiFi_linux_v4.1.3_6044.20121224
    Firmware is embedded in the driver as data statements. This info
    has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
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_linux_v4.3.1.1_11320.20140505
    Firmware is embedded in the driver as data statements. This info
    has been extracted into a binary file.
File: rtlwifi/rtl8192eu_nic.bin
File: rtlwifi/rtl8192eu_wowlan.bin
File: rtlwifi/rtl8192eu_ap_wowlan.bin

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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* data in hexadecimal or equivalent format, provided this copyright
* notice is accompanying it.

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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

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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.4.4.1-00077
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.2.5.0.1-01208-QCAHKSWPL_SILICONZ-1
File: ath11k/IPQ6018/hw1.0/Notice.txt
File: ath11k/IPQ8074/hw2.0/board-2.bin
File: ath11k/IPQ8074/hw2.0/m3_fw.b00
File: ath11k/IPQ8074/hw2.0/m3_fw.b01
File: ath11k/IPQ8074/hw2.0/m3_fw.b02
File: ath11k/IPQ8074/hw2.0/m3_fw.flist
File: ath11k/IPQ8074/hw2.0/m3_fw.mdt
File: ath11k/IPQ8074/hw2.0/q6_fw.b00
File: ath11k/IPQ8074/hw2.0/q6_fw.b01
File: ath11k/IPQ8074/hw2.0/q6_fw.b02
File: ath11k/IPQ8074/hw2.0/q6_fw.b03
File: ath11k/IPQ8074/hw2.0/q6_fw.b04
File: ath11k/IPQ8074/hw2.0/q6_fw.b05
File: ath11k/IPQ8074/hw2.0/q6_fw.b07
File: ath11k/IPQ8074/hw2.0/q6_fw.b08
File: ath11k/IPQ8074/hw2.0/q6_fw.flist
File: ath11k/IPQ8074/hw2.0/q6_fw.mdt
Version: WLAN.HK.2.5.0.1-01208-QCAHKSWPL_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-QCAHSTSWPLZ_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-QCAHSPSWPL_V1_V2_SILICONZ_LITE-3.6510.9
File: ath11k/WCN6855/hw2.0/Notice.txt
Link: ath11k/WCN6855/hw2.1/regdb.bin -> ../hw2.0/regdb.bin
Link: ath11k/WCN6855/hw2.1/board-2.bin -> ../hw2.0/board-2.bin
Link: ath11k/WCN6855/hw2.1/amss.bin -> ../hw2.0/amss.bin
Link: ath11k/WCN6855/hw2.1/m3.bin -> ../hw2.0/m3.bin
File: ath11k/QCN9074/hw1.0/board-2.bin
File: ath11k/QCN9074/hw1.0/amss.bin
File: ath11k/QCN9074/hw1.0/m3.bin
Version: WLAN.HK.2.5.0.1-01208-QCAHKSWPL_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.1.0.1-00887-QCAMSLSWPLZ-1
File: ath11k/WCN6750/hw1.0/Notice.txt

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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 LICENCE.myri10ge_firmware for details.

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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

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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.

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Driver: ar5523 -- Atheros AR5523 based USB Wifi dongles

File: ar5523.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

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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.

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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.

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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_REL20182
File: intel/ibt-17-16-1.ddc
Version: BT_JeffersonPeak_B0_B0_REL20182
File: intel/ibt-17-2.sfi
Version: BT_JeffersonPeak_B0_B0_REL20182
File: intel/ibt-17-2.ddc
Version: BT_JeffersonPeak_B0_B0_REL20182
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_REL47124
File:intel/ibt-20-0-3.ddc
Version: BT_CyclonePeak_A0_REL47124
File:intel/ibt-20-1-3.sfi
Version: BT_CyclonePeak_A0_REL47124
File:intel/ibt-20-1-3.ddc
Version: BT_CyclonePeak_A0_REL47124
File:intel/ibt-20-1-4.sfi
Version: BT_CyclonePeak_A0_REL47124
File:intel/ibt-20-1-4.ddc
Version: BT_CyclonePeak_A0_REL47124
File:intel/ibt-19-0-0.sfi
Version: BT_Quasar_REL47124
File:intel/ibt-19-0-0.ddc
Version: BT_Quasar_REL47124
File:intel/ibt-19-0-1.sfi
Version: BT_Quasar_REL47124
File:intel/ibt-19-0-1.ddc
Version: BT_Quasar_REL47124
File:intel/ibt-19-0-4.sfi
Version: BT_HarrisonPeak_REL47124
File:intel/ibt-19-0-4.ddc
Version: BT_HarrisonPeak_REL47124
File:intel/ibt-19-16-4.sfi
Version: BT_HarrisonPeak_REL47124
File:intel/ibt-19-16-4.ddc
Version: BT_HarrisonPeak_REL47124
File:intel/ibt-19-32-1.sfi
Version: BT_HarrisonPeak_REL47124
File:intel/ibt-19-32-1.ddc
Version: BT_HarrisonPeak_REL47124
File:intel/ibt-19-32-0.sfi
Version: BT_HarrisonPeak_REL47124
File:intel/ibt-19-32-0.ddc
Version: BT_HarrisonPeak_REL47124
File:intel/ibt-19-32-4.sfi

Version: BT_HarrisonPeak_REL47124
File:intel/ibt-19-32-4.ddc
Version: BT_HarrisonPeak_REL47124
File:intel/ibt-19-240-1.sfi
Version: BT_HarrisonPeak_REL47124
File:intel/ibt-19-240-1.ddc
Version: BT_HarrisonPeak_REL47124
File:intel/ibt-19-240-4.sfi
Version: BT_HarrisonPeak_REL47124
File:intel/ibt-19-240-4.ddc
Version: BT_HarrisonPeak_REL47124
File:intel/ibt-0041-0041.sfi
Version: BT_TyphoonPeak_REL47489
File:intel/ibt-0041-0041.ddc
Version: BT_TyphoonPeak_REL47489
File:intel/ibt-0040-0041.sfi
Version: BT_Solar_GfP2_REL47489
File:intel/ibt-0040-0041.ddc
Version: BT_Solar_GfP2_REL47489
File:intel/ibt-1040-0041.sfi
Version: BT_SolarF_GfP2_REL47489
File:intel/ibt-1040-0041.ddc
Version: BT_SolarF_GfP2_REL47489

File:intel/ibt-0040-1020.sfi
Version: BT_Solar_JfP1_REL47489
File:intel/ibt-0040-1020.ddc
Version: BT_Solar_JfP1_REL47489
File:intel/ibt-1040-1020.sfi
Version: BT_SolarF_JfP1_REL47489
File:intel/ibt-1040-1020.ddc
Version: BT_SolarF_JfP1_REL47489

File:intel/ibt-0040-2120.sfi
Version: BT_Solar_JfP2_REL47489
File:intel/ibt-0040-2120.ddc
Version: BT_Solar_JfP2_REL47489
File:intel/ibt-1040-2120.sfi
Version: BT_SolarF_JfP2_REL47489
File:intel/ibt-1040-2120.ddc
Version: BT_SolarF_JfP2_REL47489

File:intel/ibt-0040-4150.sfi
Version: BT_Solar_HrP2_REL47489
File:intel/ibt-0040-4150.ddc
Version: BT_Solar_HrP2_REL47489
File:intel/ibt-1040-4150.sfi
Version: BT_SolarF_HrP2_REL47489

File:intel/ibt-1040-4150.ddc
Version: BT_SolarF_HrP2_REL47489

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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/rtl8822cu_fw.bin
File: rtl_bt/rtl8822cu_config.bin
File: rtl_bt/rtl8822cs_fw.bin
File: rtl_bt/rtl8822cs_config.bin
File: rtl_bt/rtl8852au_fw.bin
File: rtl_bt/rtl8852au_config.bin
File: rtl_bt/rtl8852bu_fw.bin
File: rtl_bt/rtl8852bu_config.bin
File: rtl_bt/rtl8852cu_fw.bin
File: rtl_bt/rtl8852cu_config.bin

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

Found in vendor driver, linux_bt_usb_2.11.20140423_8723be.rar
From https://github.com/troy-tan/driver_store
Files rtl_bt/rtl8822b_* came directly from Realtek. These files are
updated on April 14, 2017.
Files rtl_bt/rtl8821c_* and rtl_bt/rtl8723d_* came directly from Realtek.
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on February 24, 2019
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on October 23, 2019

File rtl_bt/rtl8822cu_config.bin came directly from Realtek.

Found in vendor driver, 20200806_LINUX_BT_DRIVER_RTL8761B_COEX_v0202.zip
File rtl_bt/rtl8761b_fw.bin
File rtl_bt/rtl8761b_config.bin
File rtl_bt/rtl8761bu_fw.bin
File rtl_bt/rtl8761bu_config.bin
---

Driver: btmtk_usb - Bluetooth USB driver

File: mt7650.bin

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

---

Driver: rp2 -- Comtrol RocketPort 2 serial driver

File: rp2.fw

Licence: Redistributable.

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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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  to be covered by the terms of the GNU General Public License.

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File: go7007/go7007fw.bin
File: go7007/go7007tv.bin
File: go7007/lr192.fw
File: go7007/px-m402u.fw
File: go7007/px-tv402u.fw
File: go7007/wis-startrek.fw

Licence: Redistributable. See LICENCE.go7007 for details

---

Driver: ccp - Platform Security Processor (PSP) device

File: amd/amd_sev_fam17h_model0xh.sbin
Version: 2022-2-25
File: amd/amd_sev_fam17h_model3xh.sbin
Version: 2022-2-25
File: amd/amd_sev_fam19h_model0xh.sbin
Version: 2022-2-25

License: Redistributable. See LICENSE.amd-sev for details

---

Driver: microcode_amd - AMD CPU Microcode Update Driver for Linux

File: amd-ucode/microcode_amd.bin
Version: 2013-07-10
File: amd-ucode/microcode_amd_fam15h.bin
Version: 2018-05-24
File: amd-ucode/microcode_amd_fam16h.bin
Version: 2014-10-28
File: amd-ucode/microcode_amd_fam17h.bin
Version: 2022-04-08
File: amd-ucode/microcode_amd_fam19h.bin
Version: 2022-04-08
File: amd-ucode/README

License: Redistributable. See LICENSE.amd-ucode for details

---

Driver: mxu11x0 - 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:
Copyright (c) 2011-2013 Sagrad, Inc.

This SDD ("Static Dynamic Data") file is licensed strictly for use with
the Sagrad WiFi modules (such as the SG901-1091/1098) that utilize the
cw1200 driver. There is no warranty expressed or implied about its
fitness for any purpose.

Permission is hereby granted for the distribution of this SDD file as
part of Linux or other Open Source operating system kernel in text or
binary form as required.

(Please note that the actual device firmware is separately licensed)

---

Driver: BFA/BNA - QLogic BR-series Adapter FC/FCOE drivers

File: cbfw-3.2.5.1.bin
File: ctfw-3.2.5.1.bin
File: ct2fw-3.2.5.1.bin

Licence:

This file contains firmware data derived from proprietary unpublished
source code.
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useful, but WITHOUT ANY WARRANTY; without even the implied warranty
of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

---
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

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.
 *
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 *	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_sst_acpi

File: intel/IntcSST2.bin
Version: 8.4.1.77

License: Redistributable. See LICENCE.IntcSST2 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
Link: intel/dsp_fw_release.bin -> dsp_fw_release_v3402.bin

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
Link: intel/dsp_fw_bxtn.bin -> dsp_fw_bxtn_v3366.bin

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
Link: intel/dsp_fw_kbl.bin -> dsp_fw_kbl_v3402.bin

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
Link: intel/dsp_fw_glk.bin -> dsp_fw_glk_v3366.bin

File: intel/dsp_fw_cnl_v1191.bin
Version: 10.00.00.1191
File: intel/dsp_fw_cnl_v1858.bin
Version: 10.23.00.1858
Link: intel/dsp_fw_cnl.bin -> dsp_fw_cnl_v1858.bin

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: sms1xxx-hcw-55xxx-dvbt-02.fw
File: sms1xxx-hcw-55xxx-isdbt-02.fw
File: sms1xxx-nova-a-dvbt-01.fw
File: sms1xxx-nova-b-dvbt-01.fw
File: sms1xxx-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_ucode.bin
Link: nvidia/tegra124/vic.bin -> vic03_ucode.bin

File: nvidia/tegra210/vic04_ucode.bin
Link: nvidia/tegra210/vic.bin -> vic04_ucode.bin

File: nvidia/tegra186/vic04_ucode.bin
Link: nvidia/tegra186/vic.bin -> vic04_ucode.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

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

---

Driver: qca - Qualcomm Atheros Bluetooth support for WCN399x chips

File: qca/crbtfw21.tlv
File: qca/crnv21.bin
File: qca/crbtfw32.tlv
File: qca/crnv32.bin
File: qca/crnv32u.bin

Driver: qca - Qualcomm Atheros Bluetooth support for WCN6750 chips

File: qca/msbtfw11.mbn
File: qca/msbtfw11.tlv
File: qca/msnv11.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

---

Driver: liquidio -- Cavium LiquidIO driver

File: liquidio/lio_23xx_nic.bin
Version: v1.7.2

File: liquidio/lio_23xx_vsw.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_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/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_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/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_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/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_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

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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
Link: nvidia/gm206/gr/sw_bundle_init.bin -> ../../gm200/gr/sw_bundle_init.bin
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Link: nvidia/gm206/gr/sw_nonctx.bin -> ../../gm200/gr/sw_nonctx.bin
File: nvidia/gm20b/acr/bl.bin
File: nvidia/gm20b/acr/ucode_load.bin
File: nvidia/gm20b/gr/fecs_bl.bin
File: nvidia/gm20b/gr/fecs_data.bin
File: nvidia/gm20b/gr/fecs_inst.bin
File: nvidia/gm20b/gr/fecs_sig.bin
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File: nvidia/gm20b/gr/sw_ctx.bin
Link: nvidia/gm20b/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin
File: nvidia/gm20b/gr/sw_nonctx.bin
File: nvidia/gm20b/pmu/desc.bin
File: nvidia/gm20b/pmu/image.bin
File: nvidia/gm20b/pmu/sig.bin
File: nvidia/gp100/acr/bl.bin
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File: nvidia/gp100/gr/sw_bundle_init.bin
File: nvidia/gp100/gr/sw_ctx.bin
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File: nvidia/gp102/acr/bl.bin

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File: nvidia/gp102/acr/unload_bl.bin
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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
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Link: nvidia/gp104/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp104/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
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Link: nvidia/gp106/sec2/desc-1.bin -> ../../gp102/sec2/desc-1.bin
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Link: nvidia/gp107/sec2/sig.bin -> ../../gp102/sec2/sig.bin
Link: nvidia/gp107/sec2/desc-1.bin -> ../../gp102/sec2/desc-1.bin
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File: nvidia/gp10b/gr/sw_nonctx.bin
File: nvidia/gp10b/pmu/desc.bin
File: nvidia/gp10b/pmu/image.bin
File: nvidia/gp10b/pmu/sig.bin
Link: nvidia/gp108/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp108/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp108/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp108/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
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File: nvidia/gp108/gr/sw_nonctx.bin
Link: nvidia/gp108/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp108/sec2/desc.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp108/sec2/image.bin -> ../../gp102/sec2/image-1.bin
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File: nvidia/tu102/acr/ucode_asb.bin
File: nvidia/tu102/acr/unload_bl.bin
File: nvidia/tu102/acr/ucode_unload.bin
File: nvidia/tu102/gr/fecs_bl.bin
File: nvidia/tu102/gr/fecs_data.bin
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File: nvidia/tu104/gr/fecs_sig.bin
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File: nvidia/tu104/gr/sw_ctx.bin
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Link: nvidia/tu104/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu104/sec2/desc.bin -> ../../tu102/sec2/desc.bin
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Link: nvidia/tu106/sec2/sig.bin -> ../../tu102/sec2/sig.bin
File: nvidia/tu116/acr/bl.bin
File: nvidia/tu116/acr/ucode_ahesasc.bin
File: nvidia/tu116/acr/ucode_asb.bin
File: nvidia/tu116/acr/ucode_unload.bin
File: nvidia/tu116/acr/unload_bl.bin
File: nvidia/tu116/gr/fecs_bl.bin
File: nvidia/tu116/gr/fecs_data.bin
File: nvidia/tu116/gr/fecs_inst.bin
File: nvidia/tu116/gr/fecs_sig.bin
File: nvidia/tu116/gr/gpccs_bl.bin
File: nvidia/tu116/gr/gpccs_data.bin
File: nvidia/tu116/gr/gpccs_inst.bin
File: nvidia/tu116/gr/gpccs_sig.bin
File: nvidia/tu116/gr/sw_bundle_init.bin
File: nvidia/tu116/gr/sw_ctx.bin
File: nvidia/tu116/gr/sw_method_init.bin
File: nvidia/tu116/gr/sw_nonctx.bin
File: nvidia/tu116/gr/sw_veid_bundle_init.bin
File: nvidia/tu116/nvdec/scrubber.bin
File: nvidia/tu116/sec2/desc.bin
File: nvidia/tu116/sec2/image.bin
File: nvidia/tu116/sec2/sig.bin
Link: nvidia/tu117/acr/bl.bin -> ../../tu116/acr/bl.bin
Link: nvidia/tu117/acr/ucode_ahesasc.bin -> ../../tu116/acr/ucode_ahesasc.bin
Link: nvidia/tu117/acr/ucode_asb.bin -> ../../tu116/acr/ucode_asb.bin
Link: nvidia/tu117/acr/ucode_unload.bin -> ../../tu116/acr/ucode_unload.bin

Link: nvidia/tu117/acr/unload_bl.bin -> ../../tu116/acr/unload_bl.bin
Link: nvidia/tu117/gr/fecs_bl.bin -> ../../tu116/gr/fecs_bl.bin
File: nvidia/tu117/gr/fecs_data.bin
File: nvidia/tu117/gr/fecs_inst.bin
File: nvidia/tu117/gr/fecs_sig.bin
Link: nvidia/tu117/gr/gpccs_bl.bin -> ../../tu116/gr/gpccs_bl.bin
File: nvidia/tu117/gr/gpccs_data.bin
File: nvidia/tu117/gr/gpccs_inst.bin
File: nvidia/tu117/gr/gpccs_sig.bin
File: nvidia/tu117/gr/sw_bundle_init.bin
File: nvidia/tu117/gr/sw_ctx.bin
File: nvidia/tu117/gr/sw_method_init.bin
File: nvidia/tu117/gr/sw_nonctx.bin
File: nvidia/tu117/gr/sw_veid_bundle_init.bin
Link: nvidia/tu117/nvdec/scrubber.bin -> ../../tu116/nvdec/scrubber.bin
Link: nvidia/tu117/sec2/desc.bin -> ../../tu116/sec2/desc.bin
Link: nvidia/tu117/sec2/image.bin -> ../../tu116/sec2/image.bin
Link: nvidia/tu117/sec2/sig.bin -> ../../tu116/sec2/sig.bin
File: nvidia/ga102/acr/ucode_ahesasc.bin
File: nvidia/ga102/acr/ucode_asb.bin
File: nvidia/ga102/acr/ucode_unload.bin
File: nvidia/ga102/gr/fecs_bl.bin
File: nvidia/ga102/gr/fecs_sig.bin
File: nvidia/ga102/gr/gpccs_bl.bin
File: nvidia/ga102/gr/gpccs_sig.bin
File: nvidia/ga102/gr/NET_img.bin
File: nvidia/ga102/nvdec/scrubber.bin
File: nvidia/ga102/sec2/desc.bin
File: nvidia/ga102/sec2/hs_bl_sig.bin
File: nvidia/ga102/sec2/image.bin
File: nvidia/ga102/sec2/sig.bin
Link: nvidia/ga103/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga103/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga103/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga103/gr/fecs_bl.bin
File: nvidia/ga103/gr/fecs_sig.bin
File: nvidia/ga103/gr/gpccs_bl.bin
File: nvidia/ga103/gr/gpccs_sig.bin
File: nvidia/ga103/gr/NET_img.bin
Link: nvidia/ga103/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga103/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga103/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga103/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga103/sec2/sig.bin -> ../../ga102/sec2/sig.bin
Link: nvidia/ga104/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga104/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga104/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga104/gr/fecs_bl.bin

File: nvidia/ga104/gr/fecs_sig.bin
File: nvidia/ga104/gr/gpccs_bl.bin
File: nvidia/ga104/gr/gpccs_sig.bin
File: nvidia/ga104/gr/NET_img.bin
Link: nvidia/ga104/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga104/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga104/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga104/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga104/sec2/sig.bin -> ../../ga102/sec2/sig.bin
Link: nvidia/ga106/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga106/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga106/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga106/gr/fecs_bl.bin
File: nvidia/ga106/gr/fecs_sig.bin
File: nvidia/ga106/gr/gpccs_bl.bin
File: nvidia/ga106/gr/gpccs_sig.bin
File: nvidia/ga106/gr/NET_img.bin
Link: nvidia/ga106/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga106/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga106/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga106/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga106/sec2/sig.bin -> ../../ga102/sec2/sig.bin
Link: nvidia/ga107/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga107/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga107/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga107/gr/fecs_bl.bin
File: nvidia/ga107/gr/fecs_sig.bin
File: nvidia/ga107/gr/gpccs_bl.bin
File: nvidia/ga107/gr/gpccs_sig.bin
File: nvidia/ga107/gr/NET_img.bin
Link: nvidia/ga107/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga107/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga107/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga107/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga107/sec2/sig.bin -> ../../ga102/sec2/sig.bin

File: nvidia/tu10x/typec/ccg_primary.cyacd
File: nvidia/tu10x/typec/ccg_secondary.cyacd
File: nvidia/tu10x/typec/ccg_boot.cyacd

Licence: Redistributable. See LICENCE.nvidia for details

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Driver: wilc1000 - Atmel 802.11n WLAN driver for WILC1000

File: atmel/wilc1000_fw.bin
File: atmel/wilc1000_ap_fw.bin

File: atmel/wilc1000_p2p_fw.bin
File: atmel/wilc1000_wifi_firmware.bin
File: atmel/wilc1000_wifi_firmware-1.bin
Version: 15.6

License: Redistributable. See LICENSE.atmel for details

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Driver: hfi1 - Intel OPA Gen 1 adapter

File: hfi1_dc8051.fw
Version: 1.27.0
File: hfi1_fabric.fw
Version: 0x1055
File: hfi1_pcie.fw
Version: 0x4755
File: hfi1_sbus.fw
Version: 0x10130001

Licence: Redistributable. See LICENSE.hfi1_firmware for details

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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 LICENCE.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 LICENCE.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 LICENCE.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: v0.0.6
File: mediatek/mt8192/scp.img
Version: v2.0.8548
File: mediatek/mt8195/scp.img
Version: v2.0.13324

Licence: Redistributable. See LICENCE.mediatek for details.

---

Driver: btmtk - MediaTek Bluetooth Driver

File: mediatek/mt7622pr2h.bin
Version: 20180621204904
File: mediatek/mt7668pr2h.bin
Version: 20180517181834
File: mediatek/mt7663pr2h.bin
Version: 7663e2ccn04-2006030247

Licence: Redistributable. See LICENCE.mediatek for details.

---

Driver: rk3399-dptx - ROCKCHIP rk3399 dptx firmware

File: rockchip/dptx.bin
Version: 3.1

Licence: Redistributable. See LICENCE.rockchip for details.

---

Driver: mt76x0 - MediaTek MT76x0 Wireless MACs

File: mediatek/mt7610u.bin
File: mediatek/mt7610e.bin

Version: 2.6
File: mediatek/mt7650e.bin
Version: 1.0.07-b370

Licence: Redistributable. See LICENCE.mediatek for details.

---

Driver: mt76x2e - MediaTek MT76x2 Wireless MACs

File: mt7662.bin
Version: 1.9

File: mt7662_rom_patch.bin
Version: 0.0.2_P69

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

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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.

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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.

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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.

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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.

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Driver: mt7915e - MediaTek Wireless MACs for MT7915/MT7916/MT7986

File: mediatek/mt7915_wm.bin
Version: 20211222184052
File: mediatek/mt7915_wa.bin
Version: 20211222184111
File: mediatek/mt7915_rom_patch.bin
Version: 20211222184017a
File: mediatek/mt7915_eeprom.bin
Version: 20200821
File: mediatek/mt7915_eeprom_dbdc.bin
Version: 20200821

File: mediatek/mt7916_wm.bin
Version: 20211230135720
File: mediatek/mt7916_wa.bin
Version: 20211230135808
File: mediatek/mt7916_rom_patch.bin
Version: 20211230135620a
File: mediatek/mt7916_eeprom.bin
Version: 20211130

File: mediatek/mt7986_wm.bin
Version: 20220113162641

File: mediatek/mt7986_wm_mt7975.bin
Version: 20220113162756
File: mediatek/mt7986_wa.bin
Version: 20220113163034
File: mediatek/mt7986_rom_patch.bin
Version: 20220113162543a
File: mediatek/mt7986_rom_patch_mt7975.bin
Version: 20220113162701a
File: mediatek/mt7986_eeprom_mt7976.bin
Version: 20211105
File: mediatek/mt7986_eeprom_mt7976_dbdc.bin
Version: 20220223
File: mediatek/mt7986_eeprom_mt7976_dual.bin
Version: 20211115
File: mediatek/mt7986_eeprom_mt7975_dual.bin
Version: 20220208

Licence: Redistributable. See LICENCE.mediatek for details.

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Driver: mt7921 - MediaTek MT7921 Wireless MACs

File: mediatek/WIFI_MT7961_patch_mcu_1_2_hdr.bin
Version: 20220608210839a
File: mediatek/WIFI_RAM_CODE_MT7961_1.bin
Version: 20220608210922

Licence: Redistributable. See LICENCE.mediatek for details.

---

Driver: mt7921 - MediaTek MT7921 bluetooth chipset

File: mediatek/BT_RAM_CODE_MT7961_1_2_hdr.bin
Version: 20220608211111

Licence: Redistributable. See LICENCE.mediatek for details.

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Driver: mt7922 - MediaTek MT7922 Wireless MACs

File: mediatek/WIFI_MT7922_patch_mcu_1_1_hdr.bin
Version: 20220523103345a
File: mediatek/WIFI_RAM_CODE_MT7922_1.bin
Version: 20220523103447

Licence: Redistributable. See LICENCE.mediatek for details.

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Driver: mt7922 - MediaTek MT7922 bluetooth chipset

File: mediatek/BT_RAM_CODE_MT7922_1_1_hdr.bin
Version: 20220523103832

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

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Driver: venus - Qualcomm Venus video codec accelerator

File: qcom/venus-1.8/venus.mdt
File: qcom/venus-1.8/venus.b00
File: qcom/venus-1.8/venus.b01
File: qcom/venus-1.8/venus.b02
File: qcom/venus-1.8/venus.b03
File: qcom/venus-1.8/venus.b04

Version: 1.8-00109

File: qcom/venus-4.2/venus.mdt
File: qcom/venus-4.2/venus.b00
File: qcom/venus-4.2/venus.b01
File: qcom/venus-4.2/venus.b02
File: qcom/venus-4.2/venus.b03
File: qcom/venus-4.2/venus.b04

Version: 4.2

File: qcom/venus-5.2/venus.mdt
File: qcom/venus-5.2/venus.b00
File: qcom/venus-5.2/venus.b01
File: qcom/venus-5.2/venus.b02
File: qcom/venus-5.2/venus.b03
File: qcom/venus-5.2/venus.b04
File: qcom/venus-5.2/venus.mbn

Version: 5.2-00023

File: qcom/venus-5.4/venus.mdt
File: qcom/venus-5.4/venus.b00
File: qcom/venus-5.4/venus.b01
File: qcom/venus-5.4/venus.b02
File: qcom/venus-5.4/venus.b03
File: qcom/venus-5.4/venus.b04
File: qcom/venus-5.4/venus.mbn

Version: 5.4-00038

File: qcom/vpu-1.0/venus.mdt
File: qcom/vpu-1.0/venus.b00
File: qcom/vpu-1.0/venus.b01
File: qcom/vpu-1.0/venus.b02
File: qcom/vpu-1.0/venus.b03
File: qcom/vpu-1.0/venus.b04
File: qcom/vpu-1.0/venus.b05
File: qcom/vpu-1.0/venus.b06
File: qcom/vpu-1.0/venus.b07
File: qcom/vpu-1.0/venus.b08
File: qcom/vpu-1.0/venus.b09
File: qcom/vpu-1.0/venus.b10
File: qcom/vpu-1.0/venus.b19
File: qcom/vpu-1.0/venus.mbn

Version: VIDEO.VPU.1.0-00087-PROD-1

File: qcom/vpu-2.0/venus.mdt
File: qcom/vpu-2.0/venus.b00
File: qcom/vpu-2.0/venus.b01
File: qcom/vpu-2.0/venus.b02
File: qcom/vpu-2.0/venus.b03
File: qcom/vpu-2.0/venus.b04
File: qcom/vpu-2.0/venus.b05
File: qcom/vpu-2.0/venus.b06
File: qcom/vpu-2.0/venus.b07
File: qcom/vpu-2.0/venus.b08
File: qcom/vpu-2.0/venus.b09
File: qcom/vpu-2.0/venus.b10
File: qcom/vpu-2.0/venus.b19
File: qcom/vpu-2.0/venus.mbn

Version: VIDEO.VPU.2.0-00038-PROD-1

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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

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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/a530_zap.b00
File: qcom/a530_zap.b01
File: qcom/a530_zap.b02
File: qcom/a530_zap.mdt
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

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Driver: qcom_q6v5_pas - Qualcomm remoteproc firmware

File: qcom/apq8096/adsp.mbn
File: qcom/apq8096/adspr.jsn
File: qcom/apq8096/adspua.jsn
File: qcom/apq8096/mba.mbn
File: qcom/apq8096/modem.mbn
File: qcom/apq8096/modemr.jsn
File: qcom/sdm845/adsp.mbn
File: qcom/sdm845/adspr.jsn
File: qcom/sdm845/adspua.jsn
File: qcom/sdm845/cdsp.mbn
File: qcom/sdm845/cdspr.jsn
File: qcom/sm8250/adsp.mbn
File: qcom/sm8250/adspr.jsn
File: qcom/sm8250/adspua.jsn
File: qcom/sm8250/cdsp.mbn
File: qcom/sm8250/cdspr.jsn
File: qcom/sc8280xp/LENOVO/21BX/adspr.jsn
File: qcom/sc8280xp/LENOVO/21BX/adspua.jsn
File: qcom/sc8280xp/LENOVO/21BX/battmgr.jsn
File: qcom/sc8280xp/LENOVO/21BX/cdspr.jsn
File: qcom/sc8280xp/LENOVO/21BX/qcadsp8280.mbn
File: qcom/sc8280xp/LENOVO/21BX/qccdsp8280.mbn
File: qcom/sc8280xp/LENOVO/21BX/qcslpi8280.mbn
Link: qcom/LENOVO/21BX -> ../sc8280xp/LENOVO/21BX

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http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip
http://releases.linaro.org/96boards/rb5/qualcomm/firmware/RB5_firmware_20210331-v4.zip

adsp.mbn has been converted from 20-adsp_split/firmware/adsp.* using
https://github.com/andersson/pil-squasher

cdsp.mbn has been converted from 21-cdsp_split/firmware/cdsp.* using
https://github.com/andersson/pil-squasher

---

Driver: qcom_q6v5_mss - Qualcomm modem subsystem firmware

File: qcom/sdm845/mba.mbn
File: qcom/sdm845/modem.mbn
File: qcom/sdm845/modemuw.jsn

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http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip

modem.mbn has been converted from 28-modem/modem.* using
https://github.com/andersson/pil-squasher

---

Driver: mlxsw_spectrum - Mellanox Spectrum switch

File: mellanox/mlxsw_spectrum-13.1420.122.mfa2
File: mellanox/mlxsw_spectrum-13.1530.152.mfa2
File: mellanox/mlxsw_spectrum-13.1620.192.mfa2
File: mellanox/mlxsw_spectrum-13.1702.6.mfa2
File: mellanox/mlxsw_spectrum-13.1703.4.mfa2
File: mellanox/mlxsw_spectrum-13.1910.622.mfa2
File: mellanox/mlxsw_spectrum-13.2000.1122.mfa2
File: mellanox/mlxsw_spectrum-13.2000.1886.mfa2
File: mellanox/mlxsw_spectrum-13.2000.2308.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2308.mfa2
File: mellanox/mlxsw_spectrum-13.2000.2714.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2714.mfa2
File: mellanox/mlxsw_spectrum-13.2007.1168.mfa2
File: mellanox/mlxsw_spectrum2-29.2007.1168.mfa2
File: mellanox/mlxsw_spectrum3-30.2007.1168.mfa2
File: mellanox/mlxsw_spectrum-13.2008.1036.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1036.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.1036.mfa2
File: mellanox/mlxsw_spectrum-13.2008.1310.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1310.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.1310.mfa2
File: mellanox/mlxsw_spectrum-13.2008.1312.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1312.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.1312.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2018.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2018.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2018.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2304.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2304.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2304.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2406.mfa2

File: mellanox/mlxsw_spectrum2-29.2008.2406.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2406.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2438.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2438.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2438.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2946.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2946.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2946.mfa2
File: mellanox/mlxsw_spectrum-13.2008.3326.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.3326.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.3326.mfa2
File: mellanox/mlxsw_spectrum-13.2010.1006.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1006.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.1006.mfa2
File: mellanox/lc_ini_bundle_2010_1006.bin
File: mellanox/mlxsw_spectrum-13.2010.1232.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1232.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.1232.mfa2
File: mellanox/mlxsw_spectrum-13.2010.1406.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1406.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.1406.mfa2
File: mellanox/mlxsw_spectrum-13.2010.1502.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1502.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.1502.mfa2
File: mellanox/lc_ini_bundle_2010_1502.bin
File: mellanox/mlxsw_spectrum-13.2010.3020.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.3020.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.3020.mfa2
File: mellanox/lc_ini_bundle_2010_3020.bin
File: mellanox/mlxsw_spectrum-13.2010.3146.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.3146.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.3146.mfa2
File: mellanox/lc_ini_bundle_2010_3146.bin

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Driver: cdns-mhdp - Cadence MHDP8546 DP bridge

File: cadence/mhdp8546.bin
Version: 2.1.0

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---

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

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Driver: mscc-phy - Microchip PHY drivers

File: microchip/mscc_vsc8574_revb_int8051_29e8.bin
File: microchip/mscc_vsc8584_revb_int8051_fb48.bin

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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/sm1_hevc_mmu.bin
File: meson/vdec/sm1_vp9_mmu.bin

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---

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

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File: intel/ice/ddp-comms/ice_comms-1.3.31.0.pkg
File: intel/ice/ddp-wireless_edge/ice_wireless_edge-1.3.7.0.pkg

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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

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Driver: prestera - Marvell driver for Prestera family ASIC devices

File: mrvl/prestera/mvsw_prestera_fw-v2.0.img
File: mrvl/prestera/mvsw_prestera_fw-v3.0.img
File: mrvl/prestera/mvsw_prestera_fw-v4.0.img

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---

Driver: lt9611uxc - Lontium DSI to HDMI bridge

File: lt9611uxc_fw.bin

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---

Driver: wfx - Silicon Labs Wi-Fi Transceiver

File: wfx/wfm_wf200_C0.sec
Version: 3.14

File: wfx/brd4001a.pds
File: wfx/brd8022a.pds
File: wfx/brd8023a.pds

Licence: Redistributable. See wfx/LICENCE.wf200 for details.

The firmware itself originates from https://github.com/SiliconLabs/wfx-firmware

The *.pds files come from https://github.com/SiliconLabs/wfx-pds

They have been processed with the tool "pds_compress" available on

https://github.com/SiliconLabs/wfx-linux-tools

---

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

File: cnm/wave521c_j721s2_codec_fw.bin

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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

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Driver: amphion - Amphion VPU(Video Processing Unit) Codec IP driver

File: amphion/vpu/vpu_fw_imx8_dec.bin
Version: 1.7.4
File: amphion/vpu/vpu_fw_imx8_enc.bin
Version: 1.3.1

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Driver: cs35l41_hda - CS35l41 ALSA HDA audio driver

File: cirrus/cs35l41-dsp1-spk-prot.wmfw
File: cirrus/cs35l41-dsp1-spk-prot.bin

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Driver: mtk-sof - MediaTek Sound Open Firmware driver

File: mediatek/sof/sof-mt8186.ri
File: mediatek/sof/sof-mt8186-mt6366-da7219-max98357.tplg
File: mediatek/sof/sof-mt8186-mt6366-rt1019-rt5682s.tplg
Version: v0.2.0

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Firmware provided as part of an XC4000 Linux developers kit by Brian
Mathews <bmathews@xceive.com> to Devin Heitmueller
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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
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force=0
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verbose=0
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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#define foodnshfoo

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 *
 *  Authored By Matthew Allum <mallum@o-hand.com>
 *
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/*
 *         Wireless Tools
 *
 *                Jean II - HPLB 97->99 - HPL 99->07
 *
 * Main code for "iwconfig". This is the generic tool for most
 * manipulations...
 * You need to link this code against "iwlib.c" and "-lm".
 *
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 */
```

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agere_sta_fw.bin -- 9.48 Hermes I
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Source Code, Version 7.18 and Linux LKM Wireless Driver Source Code,
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The Linux driver architecture was based on two modules, the MSF (Module
specific functions) and the HCF (Hardware Control Functions).  Included
in the HCF is run-time firmware (binary format) which is downloaded into
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This hex coded firmware is not based on any open source software and
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Hope this helps.

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/* lib/font/fontfile/gunzip.c
  written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
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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
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well. The C routines here produce output exactly equivalent to the
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```
/* idn2.c - command line interface to libidn2
```


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***/
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------------

PCRE is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language.

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directory, is distributed under the same terms as the software itself. The data
in the testdata directory is not copyrighted and is in the public domain.

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


THE BASIC LIBRARY FUNCTIONS
---------------------------

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University of Cambridge Computing Service,
Cambridge, England.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization

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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---|---|---|---|---|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

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--- end of FTL.TXT ---

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 *
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 *
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 */
This package was debianized by Christopher L Cheney <ccheney@debian.org> on
Wed, 21 Nov 2001 15:51:14 -0600.

It was downloaded from http://www.ibiblio.org/pub/Linux/system/hardware

Upstream Author: Mark S. Lord <mlord@pobox.com>

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 * Emulation of getentropy(2) as documented at:
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The following XC500 firmware file "dvb-fe-xc5000-1.6.114.fw" was
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Firmware provided as part of an XC5000 Linux developers kit by Brian
Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org>
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# Very simple session manager for Mini X
#
```

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```
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@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{}
â†’
@end macro
@end ifset
@comment %**end of header

@include version.texi

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

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

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

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

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

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

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

@ifinfo
This manual is for GNU libunistring.
```

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

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

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

@c Table of Contents
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@ifnottex
@node Top
@top GNU libunistring
@end ifnottex

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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
* uniname.h:: Names of Unicode characters
* unictype.h:: Unicode character classification and properties
* uniwidth.h:: Display width
* unigbrk.h:: Grapheme cluster breaking
* uniwbrk.h:: Word breaks in strings
* unilbrk.h:: Line breaking
* uninorm.h:: Normalization forms
* unicase.h:: Case mappings
* uniregex.h:: Regular expressions
* Using the library:: How to link with the library and use it?
* More functionality:: More advanced functionality
* The wchar_t mess:: Why @code{wchar_t *} strings are useless
* Licenses:: Licenses

* Index:: General Index

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* Unicode and i18n:: Unicode and internationalization
* Locale encodings:: What is a locale encoding?

* In-memory representation::  How to represent strings in memory?
* char * strings::  What to keep in mind with @code{char *} strings
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Licenses

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@end detailmenu
@end menu

@node Introduction
@chapter Introduction

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

It consists of the following parts:

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

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

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

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

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

@node Unicode
@section Unicode

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

Unicode also specifies three ways of storing sequences of Unicode characters in a computer whose basic unit of data is an 8-bit byte:
@cindex UTF-8
@cindex UTF-16
@cindex UTF-32
@cindex UCS-4
@table @asis
@item UTF-8
Every character is represented as 1 to 4 bytes.
@item UTF-16
Every character is represented as 1 to 2 units of 16 bits.
@item UTF-32, a.k.a@. UCS-4
Every character is represented as 1 unit of 32 bits.
@end table

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

Unicode is widely used on the web. Prior to the use of Unicode, web pages were in many different encodings (ISO-8859-1 for English, French, Spanish,

ISO-8859-2 for Polish, ISO-8859-7 for Greek, KOI8-R for Russian, GB2312 or BIG5 for Chinese, ISO-2022-JP-2 or EUC-JP or Shift_JIS for Japanese, and many many others). It was next to impossible to create a document that contained Chinese and Polish text in the same document. Due to the many encodings for Japanese, even the processing of pure Japanese text was error prone.

References:
@itemize @bullet
@item
The Unicode standard:@texnl{} @url{http://www.unicode.org/}
@item
Definition of UTF-8:@texnl{} @url{http://www.rfc-editor.org/rfc/rfc3629.txt}
@item
Definition of UTF-16:@texnl{} @url{http://www.rfc-editor.org/rfc/rfc2781.txt}
@item
Markus Kuhn's UTF-8 and Unicode FAQ:@texnl{}
@url{http://www.cl.cam.ac.uk/~mgk25/unicode.html}
@end itemize

@node Unicode and i18n
@section Unicode and Internationalization

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

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

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

But use of Unicode is not everything. Internationalization usually consists of four features:
@itemize @bullet
@item
Use of Unicode where needed for text processing. This is what this library is for.
@item
Use of message catalogs for messages shown to the user, This is what GNU gettext is about.
@item
Use of locale specific conventions for date and time formats, for numeric

formatting, or for sorting of text.  This can be done adequately with the
POSIX APIs and the implementation of locales in the GNU C library.
@item
In graphical user interfaces, adapting the GUI to the default text direction
of the current locale (see
@url{https://en.wikipedia.org/wiki/Right-to-left,right-to-left languages}).
@end itemize

@node Locale encodings
@section Locale encodings

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

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

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

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

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

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

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

There are three ways of representing strings in memory of a running program.
@itemize @bullet
@item
As @samp{char *} strings. Such strings are represented in locale encoding. This approach is employed when not much text processing is done by the program. When some Unicode aware processing is to be done, a string is converted to Unicode on the fly and back to locale encoding afterwards.
@item
As UTF-8 or UTF-16 or UTF-32 strings. This implies that conversion from locale encoding to Unicode is performed on input, and in the opposite direction on output. This approach is employed when the program does a significant amount of text processing, or when the program has multiple threads operating on the same data but in different locales.
@item
As @samp{wchar_t *}, a.k.a@. ``wide strings''. This approach is misguided, see @ref{The wchar_t mess}.
@end itemize

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

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

@code{char *} and @code{uint8_t *} is a sign of a bug in your code
that you should not try to silence through a cast.

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

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

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

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

As a consequence:
@itemize @bullet
@item
The @posixheader{ctype.h} API is useless in this context; it does not work in
multibyte locales.
@item
The @posixfunc{strlen} function does not return the number of characters
in a string.  Nor does it return the number of screen columns occupied
by a string after it is output.  It merely returns the number of
@emph{bytes} occupied by a string.
@item
Truncating a string, for example, with @posixfunc{strncpy}, can have the
effect of truncating it in the middle of a multibyte character.  Such
a string will, when output, have a garbled character at its end, often
represented by a hollow box.
@item
@posixfunc{strchr} and @posixfunc{strrchr} do not work with multibyte strings

if the locale encoding is GB18030 and the character to be searched is
a digit.
@item
@posixfunc{strstr} does not work with multibyte strings if the locale encoding
is different from UTF-8.
@item
@posixfunc{strcspn}, @posixfunc{strpbrk}, @posixfunc{strspn} cannot work
correctly in multibyte locales: they assume the second argument is a list of
single-byte characters.  Even in this simple case, they do not work with
multibyte strings if the locale encoding is GB18030 and one of the
characters to be searched is a digit.
@item
@posixfunc{strsep} and @posixfunc{strtok_r} do not work with multibyte strings
unless all of the delimiter characters are ASCII characters < 0x30.
@item
The @posixfunc{strcasecmp}, @posixfunc{strncasecmp}, and @posixfunc{strcasestr}
functions do not work with multibyte strings.
@end itemize

The workarounds can be found in GNU gnulib
@url{http://www.gnu.org/software/gnulib/}.
@itemize @bullet
@item
gnulib has modules @samp{mbchar}, @samp{mbiter}, @samp{mbuiter} that
represent multibyte characters and allow to iterate across a multibyte
string with the same ease as through a unibyte string.
@item
gnulib has functions @func{mbslen} and @func{mbswidth} that can be
used instead of @posixfunc{strlen} when the number of characters or the
number of screen columns of a string is requested.
@item
gnulib has functions @func{mbschr} and @func{mbsrrchr} that are
like @posixfunc{strchr} and @posixfunc{strrchr}, but work in multibyte locales.
@item
gnulib has a function @func{mbsstr}, like @posixfunc{strstr}, but works
in multibyte locales.
@item
gnulib has functions @func{mbscspn}, @func{mbspbrk}, @func{mbsspn}
that are like @posixfunc{strcspn}, @posixfunc{strpbrk}, @posixfunc{strspn}, but
work in multibyte locales.
@item
gnulib has functions @func{mbssep} and @func{mbstok_r} that are
like @posixfunc{strsep} and @posixfunc{strtok_r} but work in multibyte locales.
@item
gnulib has functions @func{mbscasecmp}, @func{mbsncasecmp},
@func{mbspcasecmp}, and @func{mbscasestr} that are like @posixfunc{strcasecmp},
@posixfunc{strncasecmp}, and @posixfunc{strcasestr}, but
work in multibyte locales.  Still, the function @code{ulc_casecmp} is

preferable to these functions; see below.
@end itemize

The second problem with the C library API is that it has some assumptions built-in that are not valid in some languages:
@itemize @bullet
@item
It assumes that there are only two forms of every character: uppercase
and lowercase.  This is not true for Croatian, where the character
@sc{LETTER DZ WITH CARON} comes in three forms:
@sc{LATIN CAPITAL LETTER DZ WITH CARON} (DZ),
@sc{LATIN CAPITAL LETTER D WITH SMALL LETTER Z WITH CARON} (Dz),
@sc{LATIN SMALL LETTER DZ WITH CARON} (dz).
@item
It assumes that uppercasing of 1 character leads to 1 character.  This
is not true for German, where the @sc{LATIN SMALL LETTER SHARP S}, when
uppercased, becomes @samp{SS}.
@item
It assumes that there is 1:1 mapping between uppercase and lowercase forms.
This is not true for the Greek sigma: @sc{GREEK CAPITAL LETTER SIGMA} is
the uppercase of both @sc{GREEK SMALL LETTER SIGMA} and
@sc{GREEK SMALL LETTER FINAL SIGMA}.
@item
It assumes that the upper/lowercase mappings are position independent.
This is not true for the Greek sigma and the Lithuanian i.
@end itemize

The correct way to deal with this problem is
@enumerate
@item
to provide functions for titlecasing, as well as for upper- and
lowercasing,
@item
to view case transformations as functions that operates on strings,
rather than on characters.
@end enumerate

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

@node Unicode strings
@section Unicode strings

libunistring supports Unicode strings in three representations:
@cindex UTF-8, strings
@cindex UTF-16, strings
@cindex UTF-32, strings
@itemize @bullet

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

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

@node Conventions
@chapter Conventions

This chapter explains conventions valid throughout the libunistring library.

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

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

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

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

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

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

encoding.

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

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

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

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

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

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

@cindex return value conventions
Error values are always returned through the @code{errno} variable, usually with a return value that indicates the presence of an error (NULL for functions that return an 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 @code{(major<<8) + minor}.
@end deftypevr

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

@node Autoconf macro
@section Autoconf macro

@cindex autoconf macro
GNU Gnulib provides an autoconf macro that tests for the availability

of @code{libunistring}.  It is contained in the Gnulib module
@samp{libunistring}, see@texnl{}
@url{http://www.gnu.org/software/gnulib/MODULES.html#module=libunistring}.

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

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

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

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

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

@node Reporting problems
@section Reporting problems

@cindex bug reports
@cindex bug tracker
@cindex mailing list
If you encounter any problem, please don't hesitate to send a detailed
bug report to the @code{bug-libunistring@@gnu.org} mailing list.  You can
alternatively also use the bug tracker at the project page
@url{https://savannah.gnu.org/projects/libunistring}.

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{http://www.pango.org/}.

@include wchar_t.texi

@node Licenses
@appendix Licenses
@cindex Licenses

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@node Index

```
@unnumbered Index

@printindex cp

@bye

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@c indent-tabs-mode: nil
@c whitespace-check-buffer-indent: nil
@c End:
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 */
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```

You may contact the author by:
e-mail: philnelson@acm.org
us-mail: Philip A. Nelson
Computer Science Department, 9062
Western Washington University
Bellingham, WA 98226-9062

**********/

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 *
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 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */
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 *
 *      "BTW, I would have rejected the name Story Server because its
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 *
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************************************************************************/

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file_io/unix/mktemp.c, strings/apr_strings.c:

```
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```

From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

```
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```

From dso/aix/dso.c:

```
 *  Based on libdl (dlfcn.c/dlfcn.h) which is
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```

From strings/apr_strnatcmp.c, include/apr_strings.h:

```
  strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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```

From strings/apr_snprintf.c:

```
 *
 * cvt - IEEE floating point formatting routines.
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 *

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```
/*
 * devmem2.c: Simple program to read/write from/to any location in memory.
 *
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 *
 *
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 * the Mobile MultiMedia Communications (http://www.mmc.tudelft.nl/)
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 *
 * The author can be reached at:
 *
 *  Jan-Derk Bakker
 *  Information and Communication Theory Group
 *  Faculty of Information Technology and Systems
 *  Delft University of Technology
 *  P.O. Box 5031
 *  2600 GA Delft
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 *
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Version 3.1, 31 March 2009

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wpa_supplicant and hostapd
---

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file for more instructions.

This package may include either wpa_supplicant, hostapd, or both. See
README file respective subdirectories (wpa_supplicant/README or
hostapd/README) for more details.

Source code files were moved around in v0.6.x releases and compared to
earlier releases, the programs are now built by first going to a
subdirectory (wpa_supplicant or hostapd) and creating build
configuration (.config) and running 'make' there (for Linux/BSD/cygwin
builds).

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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.

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WIS GO7007SB Public Linux Driver

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*** 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:

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

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

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

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

## 2. COMPILING AND INSTALLING THE DRIVER

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

```
$ make
```

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

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

to be passed to make to specify the appropriate kernel source directory:

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

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

```
$ make install
```

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra" and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

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

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

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

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

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

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

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

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

| TV band | Audio subcarrier | force_mpx_mode |
|---|---|---|
| PAL B/G | Mono (default) | 1 |
| PAL B/G | A2 | 2 |
| PAL B/G | NICAM | 3 |
| PAL I | Mono (default) | 4 |
| PAL I | NICAM | 5 |
| PAL D/K | Mono (default) | 6 |
| PAL D/K | A2 (1) | 7 |
| PAL D/K | A2 (2) | 8 |
| PAL D/K | A2 (3) | 9 |
| PAL D/K | NICAM | 10 |
| SECAM L | Mono (default) | 11 |
| SECAM L | NICAM | 12 |

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

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

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

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

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

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

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

## 4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from

Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

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

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

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

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

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

## 5. USING THE DRIVER

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

* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while the encoder is active.

* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel 16-bit

little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

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

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

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

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

---

## Installing the WIS PCI Voyager Driver

---

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

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

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

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

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

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

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

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

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

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

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

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

video devices (xawtv and gorecord, for example).

---
RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER
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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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using the "WIP" test distributions or one from the hg or git
repository from the development branch, please contact me

(tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

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 *
 */
```

```
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---

```
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## A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com).  In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property.  Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
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| Release | Derived | Year | Owner | GPL- |
|---|---|---|---|---|

| | from | | compatible? (1) |
|---|---|---|---|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI yes |
| 1.6 | 1.5.2 | 2000 | CNRI no |
| 2.0 | 1.6 | 2000 | BeOpen.com no |
| 1.6.1 | 1.6 | 2001 | CNRI yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF yes |
| 2.2 | 2.1.1 | 2001 | PSF yes |
| 2.1.2 | 2.1.1 | 2002 | PSF yes |
| 2.1.3 | 2.1.2 | 2002 | PSF yes |
| 2.2.1 | 2.2 | 2002 | PSF yes |
| 2.2.2 | 2.2.1 | 2002 | PSF yes |
| 2.2.3 | 2.2.2 | 2003 | PSF yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF yes |
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```
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 * -------------------------------------------
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 *
```

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

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

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

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xf86-video-armada
X.org graphics driver for KMS based systems with pluggable GPU backend

What is xf86-video-armada?
---

The xf86-video-armada module is a 2D graphics driver for the X Window System as implemented by X.org, supporting these DRM KMS drivers:

- Freescale i.MX
- Marvell Armada 510 (Dove)

and GPU drivers:

- Vivante libGAL (Armada only)
- Etnaviv (Armada and i.MX) with galcore kernel driver
- Etnaviv (Armada and i.MX) with etnaviv DRM kernel driver

Build requirements
---

xf86-video-armada can be built as a stand-alone KMS driver, or with Vivante and/or Etnaviv GPU support. Please carefully note that there are three variants of GPU driver for Vivante GPUs, and confusingly two of the open source variants that are quite different are both called "etnaviv" by their authors. I will refer to the DRM version as "etnadrm" below.

When building with Vivante libGAL support, the configure options --with-libgal-include= and --with-libgal-lib= should indicate the location of the libGAL headers and library respectively if they are not available via the compiler's standard include and library paths. Vivante libGAL support can be explicitly enabled or disabled via the --enable-vivante and --disable-vivante configure options, otherwise support will be automatically detected.

When building Etnaviv support, the configure options --with-etnaviv-include= and --with-etnaviv-lib= should indicate the location of the etnaviv headers and library respectively if they are not available via the compiler's standard include and library paths. Alternatively, --with-etnaviv-source= can be used to indicate the location of the built Etnaviv tree. Etnaviv (aka libetnaviv) support can be explicitly enabled or disabled via the --enable-etnaviv and --disable-etnaviv configure options, otherwise support will be automatically detected.

When building Etnadrm support, either the configure option --with-etnaviv-include= or --with-etnaviv-source= needs to be provided so etnadrm can find the etnaviv headers, similar to the Etnaviv support option above. The etnaviv library does not need to be configured, built or installed. Etnadrm support can be explicitly enabled or disabled via the --enable-etnadrm and --disable-etnadrm configure options, otherwise support will be automatically detected.

The following packages are required by this driver:

- libdrm-armada  git://git.armlinux.org.uk/~rmk/libdrm-armada.git/

The following packages are optional, but are required for building
etnaviv and etnadrm:

- etnaviv  https://github.com/laanwj/etna_viv.git

What operations are accelerated?
---
- Copies using all alu operations.
- GetImage partially accelerated.
- PutImage partially accelerated.
- Solid fills without stipples or partial plane mask.
- FillSpans without stipples or partial plane mask.
- Xrender compositing without alpha maps, and for PE1.0 hardware, without
  component alpha.
- Xrender glyph caching, and rendering of glyphs - etnaviv only.
- Xv textured adapter - etnaviv only.

Common build instructions
---

These instructions give the exact build procedure for building
xf86-video-armada to support the etnadrm GPU driver without the etnaviv
and vivante GPU drivers.  This is what most people will require:

```
$ git clone git://git.armlinux.org.uk/~rmk/libdrm-armada.git/
$ cd libdrm-armada
$ mkdir m4; autoreconf -f -i
$ ./configure --prefix=/usr
$ make
$ make install
$ cd ..
$ git clone https://github.com/laanwj/etna_viv.git
$ ETNA_SRC=$PWD/etna_viv
$ git clone git://git.armlinux.org.uk/~rmk/xf86-video-armada.git/
$ cd xf86-video-armada
$ git checkout unstable-devel
$ ./autogen.sh --prefix=/usr --disable-vivante --disable-etnaviv \
  --with-etnaviv-source=$ETNA_SRC
$ make
$ make install
$ cp conf/xorg-sample.conf /etc/X11/xorg.conf
```

You will need to edit xorg.conf according to your needs (eg, setting

XvPreferOverlay).

The commands above:
- Download libdrm-armada
- Configure, build and install libdrm-armada
- Download etna_viv
- Download xf86-video-armada
- Configure, build and install xf86-video-armada
- install the sample xorg.conf

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 * $Id$
 */
```

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```

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License identifier syntax
-------------------------

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|

2. Style:

The SPDX license identifier is added in form of a comment. The comment style depends on the file type::

```
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C header:     /* SPDX-License-Identifier: <SPDX License Expression> */
ASM:          /* SPDX-License-Identifier: <SPDX License Expression> */
scripts:      # SPDX-License-Identifier: <SPDX License Expression>
.rst:  .. SPDX-License-Identifier: <SPDX License Expression>
.dts{i}:      // SPDX-License-Identifier: <SPDX License Expression>
```

If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the "/* */" style comment in C header files. There was build breakage observed with generated .lds files where 'ld' failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

|

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```
// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+
```

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```
// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note
```

Other examples using WITH exceptions found in the linux kernel are::

```
// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0
```

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OR should be used if the file is dual licensed and only one license is to be selected. For example, some dtsi files are available under dual licenses::

```
// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause
```

Examples from U-Boot for license expressions in dual licensed files::

```
// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0+ OR BSD-3-Clause
```

AND should be used if the file has multiple licenses whose terms all apply to use the file. For example, if code is inherited from another project and permission has been given to put it in U-Boot, but the original license terms need to remain in effect::

```
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT
```

Another other example where both sets of license terms need to be adhered to is::

```
// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+
```

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