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• The GNU Ada compiler - GNAT compilation system - Unspecified

GCC Runtime Library Exception 3.1 to GPL 3.0

Version 3.1, 31 March 2009

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Version 2.1, February 1999

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- libopts 5.12
- libraphters 2.15.0
- Linux Lib C and Lib M 2.12.1
- Linux Lib C and Lib M 2.15

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

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File: tr_smctr.bin Version: 6.3C1

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

File: ttusb-budget/dspbootcode.bin

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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/usa19w.fw File: keyspan/usa19w.fw File: keyspan/usa28x.fw File: keyspan/usa28xa.fw File: keyspan/usa28x.fw File: keyspan/usa28x.fw File: keyspan/usa49w.fw File: keyspan/usa49wlc.fw

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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

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

Driver: emi26 -- EMI 2l6 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

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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

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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

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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: ip2 Computone IntelliPort Plus serial device
File: intelliport2.bin
Licence: Unknown
Found in hex form in kernel source.
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: whiteheat_loader.fw

File: dabusb/firmware.fw File: dabusb/bitstream.bin
Licence: Distributable
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Driver: vicam USB 3com HomeConnect (aka vicam)
File: vicam/firmware.fw
Licence: Unknown
Found in hex form in kernel source.
Driver: io_edgeport - USB Inside Out Edgeport Serial Driver
File: edgeport/boot.fw
File: edgeport/boot2.fw File: edgeport/down.fw
File: edgeport/down2.fw
Licence: Allegedly GPLv2+, but no source visible. Marked: //***********************************
//* Edgeport/4 Binary Image
//* Generated by HEX2C v1.06 //* Copyright (C) 1998 Inside Out Networks, All rights reserved. //***********************************
Found in hex form in kernel source.

Driver: io_ti - USB Inside Out Edgeport Serial Driver (TI Devices) File: edgeport/down3.bin Licence: //* Edgeport Binary Image (for TI based products) //* Generated by TIBin2C v2.00 (watchport) //* Copyright (C) 2001 Inside Out Networks, All rights reserved. Found in hex form in kernel source. Driver: dsp56k - Atari DSP56k support File: dsp56k/bootstrap.bin Source: dsp56k/bootstrap.asm Source: dsp56k/Makefile Source: dsp56k/concat-bootstrap.pl Licence: GPLv2 or later. See GPL-2 and GPL-3 for details. DSP56001 assembler, buildable with a56 from http://www.zdomain.com/a56.html Driver: snd-sb16-csp - Sound Blaster 16/AWE CSP support File: sb16/mulaw_main.csp File: sb16/alaw_main.csp File: sb16/ima_adpcm_init.csp File: sb16/ima_adpcm_playback.csp File: sb16/ima_adpcm_capture.csp

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

/*

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

*/

Found in hex form in kernel source.

Driver: qla2xxx - QLogic QLA2XXX Fibre Channel

File: ql2100_fw.bin Version: 1.19.38 TP File: ql2200_fw.bin Version: 2.02.08 TP File: ql2300_fw.bin Version: 3.03.28 IPX File: ql2322_fw.bin Version: 3.03.28 IPX File: ql2400_fw.bin Version: 8.03.00 MID File: ql2500_fw.bin Version: 8.03.00 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

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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
The. exg03/t31w-7.12.0.0iii
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
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Found in hex form in kernel source.
Driver: cxgh4 - Chelsio Terminator 4/5 1G/10/40G Ethernet adapter

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

Link: cxgb4/t4fw.bin -> t4fw-1.15.37.0.bin

File: cxgb4/t5fw-1.14.4.0.bin File: cxgb4/t5fw-1.15.37.0.bin

Link: cxgb4/t5fw.bin -> t5fw-1.15.37.0.bin

File: cxgb4/aq1202_fw.cld File: cxgb4/bcm8483.bin

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.

*

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- * notice is accompanying it.

Found in hex form in kernel source.

Driver: starfire - Adaptec Starfire/DuraLAN support

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

Licence: Allegedly GPLv2, but no source visible.

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Driver: i2400m-usb - Intel 2400 Wireless WiMAX Connection over USB

File: i2400m-fw-usb-1.4.sbcf File: i2400m-fw-usb-1.5.sbcf File: i6050-fw-usb-1.5.sbcf

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Also available from http://linuxwimax.org/Download

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

File: libertas/cf8381.bin

File: libertas/cf8381_helper.bin

File: libertas/cf8385.bin

File: libertas/cf8385_helper.bin File: libertas/gspi8682.bin

File: libertas/gspi8682_helper.bin File: libertas/gspi8686_v9.bin

File: libertas/gspi8686_v9_helper.bin

File: libertas/gspi8688.bin

File: libertas/gspi8688_helper.bin

File: libertas/sd8385.bin

File: libertas/sd8385_helper.bin

File: libertas/sd8682.bin

File: libertas/sd8682_helper.bin File: libertas/sd8686_v8.bin

 $File: libertas/sd8686_v8_helper.bin$

File: libertas/sd8686_v9.bin

File: libertas/sd8686_v9_helper.bin

File: libertas/usb8388_v5.bin File: libertas/usb8388_v9.bin File: libertas/usb8682.bin File: mrvl/sd8688.bin

Link: libertas/sd8688.bin -> ../mrvl/sd8688.bin

File: mrvl/sd8688_helper.bin

Link: libertas/sd8688_helper.bin -> ../mrvl/sd8688_helper.bin

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

File: libertas/lbtf_sdio.bin

Version: 9.0.7.p4

File: lbtf_usb.bin Version: 5.132.3.p1

File: libertas/usb8388_olpc.bin

Version: 5.110.22.p23

Licence: Redistributable. See LICENCE.OLPC for details.

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

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

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

Version: 5.2.8.16

File: mwl8k/helper_8366.fw

File: mwl8k/fmimage_8764_ap-1.fw

Version: 7.4.0.9

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directly by Marvell.

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

File: mrvl/sd8787_uapsta.bin

Version: 14.66.35.p52

File: mrvl/usb8766_uapsta.bin

Version: 14.68.22.p16

File: mrvl/sd8797_uapsta.bin Version: 14.66.11.p151

File: mrvl/usb8797_uapsta.bin

Version: 14.68.29.p49

File: mrvl/sd8897_uapsta.bin

Version: 15.68.7.p77

File: mrvl/usb8897_uapsta.bin

Version: 15.68.4.p103

File: mrvl/pcie8897_uapsta.bin

Version: 15.68.7.p77

File: mrvl/sd8887_uapsta.bin

Version: 15.68.7.p5

File: mrvl/sd8801_uapsta.bin

Version: 14.68.36.p60

File: mrvl/usb8801_uapsta.bin

Version: 14.68.36.p60

File: mrvl/pcieuart8997_combo_v4.bin

Version: 16.68.1.p70

File: mrvl/pcieusb8997_combo_v4.bin

Version: 16.68.1.p70

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http://git.marvell.com/?p=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-7260-7.ucode

Version: 22.1.7.0

File: iwlwifi-7260-8.ucode

Version: 22.24.8.0

File: iwlwifi-7260-9.ucode

Version: 25.228.9.0

File: iwlwifi-7260-10.ucode

Version: 23.15.10.0

File: iwlwifi-7260-12.ucode

Version: 25.17.12.0

File: iwlwifi-7260-13.ucode

Version: 25.30.13.0

File: iwlwifi-7260-16.ucode

Version 16.242414.0

File: iwlwifi-7260-17.ucode

Version 17.352738.0

File: iwlwifi-3160-7.ucode

Version: 22.1.7.0

File: iwlwifi-3160-8.ucode

Version: 22.24.8.0

File: iwlwifi-3160-9.ucode

Version: 25.228.9.0

File: iwlwifi-3160-10.ucode

Version: 23.15.10.0

File: iwlwifi-3160-12.ucode

Version: 25.17.12.0

File: iwlwifi-3160-13.ucode

Version: 25.30.13.0

File: iwlwifi-3160-16.ucode

Version 16.242414.0

File: iwlwifi-3160-17.ucode

Version 17.352738.0

File: iwlwifi-7265-8.ucode

Version: 22.24.8.0

File: iwlwifi-7265-9.ucode

Version: 25.228.9.0

File: iwlwifi-7265-10.ucode

Version: 23.15.10.0

File: iwlwifi-7265-12.ucode

Version: 25.17.12.0

File: iwlwifi-7265-13.ucode

Version: 25.30.13.0

File: iwlwifi-7265-16.ucode

Version 16.242414.0

File: iwlwifi-7265-17.ucode Version 17.352738.0

File: iwlwifi-7265D-10.ucode

Version: 23.15.10.0

File: iwlwifi-7265D-12.ucode

Version: 25.17.12.0

File: iwlwifi-7265D-13.ucode

Version: 25.30.13.0

File: iwlwifi-7265D-16.ucode

Version 16.242414.0

File: iwlwifi-7265D-17.ucode

Version 17.352738.0

File: iwlwifi-7265D-21.ucode

Version 21.302800.0

File: iwlwifi-7265D-22.ucode

Version 22.361476.0

File: iwlwifi-3168-21.ucode

Version 21.302800.0

File: iwlwifi-3168-22.ucode

Version 22.361476.0

File: iwlwifi-8000C-13.ucode

Version: 25.30.13.0

File: iwlwifi-8000C-16.ucode

Version 16.242414.0

File: iwlwifi-8000C-21.ucode

Version 21.302800.0

File: iwlwifi-8000C-22.ucode

Version 22.361476.0

File: iwlwifi-8265-21.ucode

Version 21.302800.0

File: iwlwifi-8265-22.ucode

Version 22.361476.0

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

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

File: v41-cx231xx-avcore-01.fw

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Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

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*/ Found in hex form in kernel source. Driver: 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: 3c359 - 3Com 3C359 Token Link Velocity XL adapter File: 3com/3C359.bin Licence: * The firmware this driver downloads into the tokenring card is a * separate program and is not GPL'd source code, even though the Linux * side driver and the routine that loads this data into the card are. * This firmware is licensed to you strictly for use in conjunction * with the use of 3Com 3C359 TokenRing adapters. There is no * waranty expressed or implied about its fitness for any purpose. /* 3c359_microcode.mac: 3Com 3C359 Tokenring microcode. * Notes: * - Loaded from xl_init upon adapter initialization. * Available from 3Com as part of their standard 3C359 driver.

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

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Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis

Source: cis/src/3CXEM556.cis

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Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis

Source: cis/src/3CCFEM556.cis

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Originally developed by the pemcia-es project

Copyright (C) 1998, 1999, 2000 David A. Hinds 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 Copyright (C) 1998, 1999, 2000 David A. Hinds _____ 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:

(Special thanks to Kevin MacPherson of OSITECH)

This file contains the firmware of Seven of Diamonds from OSITECH.

ce.

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: v41-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

Found in hex form in kernel source.

Driver: bnx2x: Broadcom Everest

File: bnx2x-e1-4.8.53.0.fw File: bnx2x-e1h-4.8.53.0.fw File: bnx2x-e1-5.2.7.0.fw File: bnx2x-e1h-5.2.7.0.fw File: bnx2x-e1-5.2.13.0.fw

File: bnx2x-e1h-5.2.13.0.fw File: bnx2x/bnx2x-e1-6.0.34.0.fw File: bnx2x/bnx2x-e1h-6.0.34.0.fw File: bnx2x/bnx2x-e2-6.0.34.0.fw File: bnx2x/bnx2x-e1-6.2.5.0.fw File: bnx2x/bnx2x-e1h-6.2.5.0.fw File: bnx2x/bnx2x-e2-6.2.5.0.fw File: bnx2x/bnx2x-e1-6.2.9.0.fw File: bnx2x/bnx2x-e1h-6.2.9.0.fw File: bnx2x/bnx2x-e2-6.2.9.0.fw File: bnx2x/bnx2x-e2-7.0.20.0.fw File: bnx2x/bnx2x-e1-7.0.20.0.fw File: bnx2x/bnx2x-e1h-7.0.20.0.fw File: bnx2x/bnx2x-e2-7.0.23.0.fw File: bnx2x/bnx2x-e1-7.0.23.0.fw File: bnx2x/bnx2x-e1h-7.0.23.0.fw File: bnx2x/bnx2x-e2-7.0.29.0.fw File: bnx2x/bnx2x-e1-7.0.29.0.fw File: bnx2x/bnx2x-e1h-7.0.29.0.fw File: bnx2x/bnx2x-e2-7.2.16.0.fw File: bnx2x/bnx2x-e1-7.2.16.0.fw File: bnx2x/bnx2x-e1h-7.2.16.0.fw File: bnx2x/bnx2x-e2-7.2.51.0.fw File: bnx2x/bnx2x-e1-7.2.51.0.fw File: bnx2x/bnx2x-e1h-7.2.51.0.fw File: bnx2x/bnx2x-e1-7.8.2.0.fw File: bnx2x/bnx2x-e1h-7.8.2.0.fw File: bnx2x/bnx2x-e2-7.8.2.0.fw File: bnx2x/bnx2x-e1-7.8.17.0.fw File: bnx2x/bnx2x-e1h-7.8.17.0.fw File: bnx2x/bnx2x-e2-7.8.17.0.fw File: bnx2x/bnx2x-e1-7.8.19.0.fw File: bnx2x/bnx2x-e1h-7.8.19.0.fw File: bnx2x/bnx2x-e2-7.8.19.0.fw File: bnx2x/bnx2x-e1-7.10.51.0.fw File: bnx2x/bnx2x-e1h-7.10.51.0.fw File: bnx2x/bnx2x-e2-7.10.51.0.fw File: bnx2x/bnx2x-e1-7.12.30.0.fw File: bnx2x/bnx2x-e1h-7.12.30.0.fw File: bnx2x/bnx2x-e2-7.12.30.0.fw File: bnx2x/bnx2x-e1-7.13.1.0.fw

File: bnx2x/bnx2x-e1h-7.13.1.0.fw File: bnx2x/bnx2x-e2-7.13.1.0.fw

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Driver: bnx2 - Broadcom NetXtremeII

File: bnx2/bnx2-mips-06-4.6.16.fw File: bnx2/bnx2-mips-06-5.0.0.j3.fw File: bnx2/bnx2-mips-06-5.0.0.j6.fw File: bnx2/bnx2-mips-06-6.0.15.fw File: bnx2/bnx2-mips-06-6.2.1.fw File: bnx2/bnx2-mips-06-6.2.3.fw File: bnx2/bnx2-mips-09-4.6.17.fw File: bnx2/bnx2-mips-09-5.0.0.j3.fw File: bnx2/bnx2-mips-09-5.0.0.j9.fw File: bnx2/bnx2-mips-09-5.0.0.j15.fw File: bnx2/bnx2-mips-09-6.0.17.fw File: bnx2/bnx2-mips-09-6.2.1.fw File: bnx2/bnx2-mips-09-6.2.1a.fw File: bnx2/bnx2-mips-09-6.2.1b.fw File: bnx2/bnx2-rv2p-06-4.6.16.fw File: bnx2/bnx2-rv2p-06-5.0.0.j3.fw File: bnx2/bnx2-rv2p-06-6.0.15.fw File: bnx2/bnx2-rv2p-09-4.6.15.fw File: bnx2/bnx2-rv2p-09-5.0.0.j3.fw

File: bnx2/bnx2-rv2p-09-5.0.0.j10.fw

File: bnx2/bnx2-rv2p-09-6.0.17.fw File: bnx2/bnx2-rv2p-09ax-5.0.0.j3.fw File: bnx2/bnx2-rv2p-09ax-5.0.0.j10.fw File: bnx2/bnx2-rv2p-09ax-6.0.17.fw

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

File: phanfw.bin Version: 4.0.590

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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: Copyright (c) 1998-2002 by Paul Davis <pbd@op.net></pbd@op.net>
Driver: rt61pci - Ralink RT2561, RT2561S, RT2661 wireless MACs
File: rt2561.bin File: rt2661.bin File: rt2661.bin
Licence: Redistributable. See LICENCE.ralink-firmware.txt for details
Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html
Driver: rt73usb - Ralink RT2571W, RT2671 wireless MACs
File: rt73.bin
Licence: Redistributable. See LICENCE.ralink-firmware.txt for details
Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html
Driver: mt7601u - MediaTek MT7601U Wireless MACs
File: mt7601u.bin Version: 34
Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

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

Driver: rt2800pci - Ralink RT2860, RT2890, RT3090, RT3290, RT5390 wireless MACs File: rt2860.bin Version: 40 File: rt3290.bin Version: 37 Licence: Redistributable. See LICENCE.ralink-firmware.txt for details Binary file supplied originally by Shiang Tu <shiang_tu@ralinktech.com>, latest from http://www.mediatek.com/en/downloads1/downloads/ Driver: rt2860sta - Ralink RT3090 wireless MACs Link: rt3090.bin -> rt2860.bin Licence: Redistributable. See LICENCE.ralink-firmware.txt for details Driver: rt2800usb - Ralink RT2870, RT3070, RT3071, RT3072, RT5370 wireless MACs File: rt2870.bin Version: 36 Licence: Redistributable. See LICENCE.ralink-firmware.txt for details Binary file supplied originally by Shiang Tu <shiang_tu@ralinktech.com>, latest from http://www.mediatek.com/en/downloads1/downloads/ Driver: rt2870sta - Ralink RT2870, RT3070, RT3071 wireless MACs Link: rt3070.bin -> rt2870.bin

File: rt3071.bin
Licence: Redistributable. See LICENCE.ralink-firmware.txt for details
rt3071.bin is a copy of bytes 4096-8191 of rt2870.bin for compatibility.
Driver: 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></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

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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

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Driver: mga - Matrox G200/G400/G550

File: matrox/g200_warp.fw File: matrox/g400_warp.fw

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Found in hex form in kernel source.

Driver: r128 - ATI Rage 128

File: r128/r128_cce.bin

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Found in decimal form in kernel source.

Driver: radeon - ATI Radeon

File: radeon/R100_cp.bin File: radeon/R200_cp.bin File: radeon/R300_cp.bin File: radeon/R420 cp.bin File: radeon/RS600_cp.bin File: radeon/RS690_cp.bin File: radeon/R520_cp.bin File: radeon/R600_pfp.bin File: radeon/R600 me.bin File: radeon/RV610_pfp.bin File: radeon/RV610_me.bin File: radeon/RV630_pfp.bin File: radeon/RV630_me.bin File: radeon/RV620 pfp.bin File: radeon/RV620_me.bin File: radeon/RV635_pfp.bin File: radeon/RV635_me.bin File: radeon/RV670_pfp.bin File: radeon/RV670 me.bin File: radeon/RS780_pfp.bin File: radeon/RS780_me.bin File: radeon/RV770_pfp.bin File: radeon/RV770_me.bin File: radeon/RV730 pfp.bin File: radeon/RV730_me.bin File: radeon/RV710_pfp.bin

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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_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_mc.bin
File: radeon/PITCAIRN_mc.bin
File: radeon/PITCAIRN_mc.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

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Driver: amdgpu - AMD Radeon

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_mc.bin File: amdgpu/polaris10_me.bin File: amdgpu/polaris10_mec2.bin File: amdgpu/polaris10 mec.bin File: amdgpu/polaris10_pfp.bin File: amdgpu/polaris10_rlc.bin File: amdgpu/polaris10_sdma1.bin File: amdgpu/polaris10_sdma.bin File: amdgpu/polaris10 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 mc.bin File: amdgpu/polaris11_me.bin File: amdgpu/polaris11_mec2.bin File: amdgpu/polaris11_mec.bin File: amdgpu/polaris11_pfp.bin File: amdgpu/polaris11 rlc.bin File: amdgpu/polaris11_sdma1.bin File: amdgpu/polaris11_sdma.bin File: amdgpu/polaris11_smc.bin File: amdgpu/polaris11_smc_sk.bin File: amdgpu/polaris11 uvd.bin File: amdgpu/polaris11_vce.bin

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Driver: s2255drv

File: f2255usb.bin

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Driver: rtl8192e - Realtek 8192 PCI wireless driver

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

Licence: Redistributable, provided by Realtek in their driver

source download.

Driver: lgs8gxx - Legend Silicon GB20600 demodulator driver

File: lgs8g75.fw

Licence: Unknown

Driver: ib_qib - QLogic Infiniband

File: qlogic/sd7220.fw

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Found in hex form in kernel source.

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

File: qed/qed_init_values_zipped-8.4.2.0.bin File: qed/qed_init_values_zipped-8.7.3.0.bin

File: qed/qed_init_values_zipped-8.10.5.0.bin File: qed/qed_init_values_zipped-8.10.10.0.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.bip

File: ueagle-atm/CMVep.bin File: ueagle-atm/CMVepFR.bin File: ueagle-atm/DSPei.bin File: ueagle-atm/CMV9i.bin

File: ueagle-atm/CMVepES03.bin File: ueagle-atm/CMVepIT.bin File: ueagle-atm/DSPep.bin File: ueagle-atm/CMV9p.bin

File: ueagle-atm/CMVepES.bin File: ueagle-atm/CMVepWO.bin File: ueagle-atm/eagleI.fw File: ueagle-atm/CMVei.bin File: ueagle-atm/CMVepFR04.bin File: ueagle-atm/DSP9i.bin File: ueagle-atm/eagleII.fw

Version: 1.1

Licence: Redistributable. Based on

https://mail.gna.org/public/eagleusb-dev/2004-11/msg00172.html

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

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

Version: 1.8.1

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Driver: 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/brcmfmac43340-sdio.bin File: brcm/brcmfmac4335-sdio.bin File: brcm/brcmfmac43362-sdio.bin File: brcm/brcmfmac4339-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/brcmfmac43430-sdio.bin File: brcm/brcmfmac43455-sdio.bin File: brcm/brcmfmac4350c2-pcie.bin File: brcm/brcmfmac4350-pcie.bin File: brcm/brcmfmac4354-sdio.bin File: brcm/brcmfmac4356-pcie.bin File: brcm/brcmfmac43569.bin File: brcm/brcmfmac43570-pcie.bin File: brcm/brcmfmac43602-pcie.bin File: brcm/brcmfmac43602-pcie.ap.bin File: brcm/brcmfmac4366b-pcie.bin File: brcm/brcmfmac4371-pcie.bin

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

Driver: tda7706 - FM radio Highly integrated tuner for AM/FM car-radio

File: TDA7706_OM_v2.5.1_boot.txt File: TDA7706_OM_v3.0.2_boot.txt

Licence: Redistributable. See LICENCE.tda7706-firmware.txt for details.

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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/w1127x-fw-3.bin

Version: 6.3.0.0.77

File: ti-connectivity/w1127x-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: 6.3.10.0.133 (Single-role)

File: ti-connectivity/wl127x-fw-5-mr.bin

Version: 6.5.7.0.42 (Multi-role)

File: ti-connectivity/wl127x-fw-5-plt.bin

Version: 6.3.10.0.133 (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: 7.3.10.0.133 (Single-role)

File: ti-connectivity/wl128x-fw-5-mr.bin

Version: 7.5.7.0.42 (Multi-role)

File: ti-connectivity/wl128x-fw-5-plt.bin

Version: 7.3.10.2.133 (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: 8.9.0.0.69

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_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 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: 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 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: 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.

File: rtlwifi/rtl8192eefw.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/rtl8107e-1.fw

Version: 0.0.2

File: rtl_nic/rtl8107e-2.fw

Version: 0.0.2

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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/otp.bin.Z7/ File: ath6k/AR6003/hw2.0/bdata.SD31.bin File: ath6k/AR6003/hw2.0/bdata.SD32.bin File: ath6k/AR6003/hw2.0/data.patch.bin File: ath6k/AR6003/hw2.0/bdata.WB31.bin File: ath6k/AR6003/hw2.0/athwlan.bin.z77

File: ath6k/AR6002/eeprom.data File: ath6k/AR6002/eeprom.bin File: ath6k/AR6002/athwlan.bin.z77 File: ath6k/AR6002/data.patch.hw2_0.bin

Licence: Redistributable. See LICENCE.atheros firmware for details

Driver: ath10k - Qualcomm Atheros support for QCA988x family of chips

File: ath10k/QCA988X/hw2.0/board.bin File: ath10k/QCA988X/hw2.0/firmware-4.bin

Version: 10.2.4.45

Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-4.txt

File: ath10k/QCA988X/hw2.0/firmware-5.bin

Version: 10.2.4.70.54

Licence: 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

Licence: 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

Licence: ath10k/QCA6174/hw3.0/notice ath10k firmware-4.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.1.0-00267-1

Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-5.txt

File: ath10k/QCA99X0/hw2.0/board.bin File: ath10k/QCA99X0/hw2.0/firmware-5.bin

Version: 10.4.1.00030-1

Licence: 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: 10.4-3.2.1-00028

Licence: 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: 10.2.4-1.0-00013

Licence: 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: 10.4-3.2-00072

Licence: 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: 10.4-3.2-00072

Licence: ath10k/QCA9984/hw1.0/notice_ath10k_firmware-5.txt

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge_eth_z8e.dat
File: myri10ge_ethp_z8e.dat
File: myri10ge_rss_eth_z8e.dat
File: myri10ge_rss_ethp_z8e.dat
File: myri10ge_eth_big_z8e.dat
File: myri10ge_ethp_big_z8e.dat
File: myri10ge_rss_eth_big_z8e.dat
File: myri10ge_rss_eth_big_z8e.dat

Version: 1.4.57

License: Redistributable. See LICENCE.myri10ge_firmware for details.

Driver: ath6kl - Atheros support for AR6003 WiFi-Bluetooth combo module

File: ath6k/AR6003.1/hw2.1.1/athwlan.bin File: ath6k/AR6003.1/hw2.1.1/bdata.SD31.bin File: ath6k/AR6003.1/hw2.1.1/bdata.SD32.bin File: ath6k/AR6003.1/hw2.1.1/bdata.WB31.bin File: ath6k/AR6003.1/hw2.1.1/data.patch.bin File: ath6k/AR6003.1/hw2.1.1/endpointping.bin

File: ath6k/AR6003.1/hw2.1.1/otp.bin

License: Redistributable. See LICENCE.atheros_firmware for details

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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

License: Redistributable. See LICENCE.atheros_firmware for details

Driver: drxk - Micronas DRX-K demodulator driver

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

Licence: Redistributable.

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Driver: ene-ub6250 -- ENE UB6250 SD card reader driver

File: ene-ub6250/sd_init1.bin File: ene-ub6250/sd_init2.bin File: ene-ub6250/sd_rdwr.bin File: ene-ub6250/ms_init.bin File: ene-ub6250/msp_rdwr.bin File: ene-ub6250/ms_rdwr.bin

Driver: isci -- Intel C600 SAS controller driver File: isci/isci firmware.bin Source: isci/ Licence: GPLv2. See GPL-2 for details. Driver: ar5523 -- Atheros AR5523 based USB Wifi dongles File: ar5523.bin Licence: Redistributable. See LICENCE.atheros firmware for details Driver: s5p-mfc - Samsung MFC video encoder/decoder driver File: s5p-mfc.fw File: s5p-mfc-v6.fw File: s5p-mfc-v6-v2.fw File: s5p-mfc-v7.fw File: s5p-mfc-v8.fw Licence: Redistributable. Samsung grants permission to use and redistribute aforementioned firmware files for the use with Exynos series devices, but not as 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.

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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw Version: 1.9.6 Source: carl9170fw/

Downloaded from http://linuxwireless.org/en/users/Drivers/carl9170

Licence: GPLv2. Some build scripts use the New BSD (3-clause) licence.. See GPL-2 for details.

Driver: snd-hda-codec-ca0132 - Creative Sound Core3D codec

File: ctefx.bin File: ctspeq.bin

Licence: Redistributable. See LICENCE.ca0132 for details

Found also in alsa-firmware package.

Driver: btusb - Bluetooth USB driver

File: intel/ibt-hw-37.7.bseq Version: 1316.02.00

File: intel/ibt-hw-37.7.10-fw-1.80.2.3.d.bseq Version: BT_WilkinsPeak_B3_REL_86_0001 File: intel/ibt-hw-37.7.10-fw-1.0.2.3.d.bseq Version: BT_WilkinsPeak_B3_REL_86_0001 File: intel/ibt-hw-37.7.10-fw-1.80.1.2d.d.bseq Version: BT_WilkinsPeak_B5_REL_39_0001 File: intel/ibt-hw-37.7.10-fw-1.0.1.2d.d.bseq Version: BT_WilkinsPeak_B5_REL_39_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_37_0002 File: intel/ibt-hw-37.8.10-fw-22.50.19.14.f.bseq Version: BT_StonePeak_D1_REL_25_0001

File: intel/ibt-11-5.ddc Version: LnP/SfP_REL0351 File: intel/ibt-11-5.sfi

Version: BT_LightningPeak_REL0351

File: intel/ibt-12-16.ddc

Version: BT_WindStormPeak_REL0082

File: intel/ibt-12-16.sfi

Version: BT_WindStormPeak_REL0082

Licence: Redistributable. See LICENCE.ibt_firmware for details

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/rtl8761a_fw.bin
File: rtl_bt/rtl8812ae_fw.bin
File: rtl_bt/rtl8821a_fw.bin
File: rtl_bt/rtl8822b_fw.bin
File: rtl_bt/rtl8822b_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.

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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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: 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: 2016-03-16 File: amd-ucode/microcode_amd_fam16h.bin Version: 2014-10-28 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:

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

File: cbfw-3.2.1.1.bin File: ctfw-3.2.1.1.bin File: ct2fw-3.2.1.1.bin File: cbfw-3.2.3.0.bin File: ctfw-3.2.3.0.bin File: ct2fw-3.2.3.0.bin File: ctfw-3.2.5.1.bin File: ctfw-3.2.5.1.bin

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Driver: qat - Intel(R) QAT crypto accelerator

File: qat_895xcc.bin

File: gat 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

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- * Copyright (C) 2014 Redpine Signals Inc.

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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_v827.bin

Version: 8.20.00.927

File: intel/dsp_fw_release_v869.bin

Version; 8.20.00.869

File: intel/dsp_fw_release_v896.bin

Version: 8.20.00.896

File: intel/dsp_fw_release_v927.bin

Version: 8.20.00.927

File: intel/dsp_fw_release_v948.bin

Version: 8.20.00.948

File: intel/dsp_fw_release_v951.bin

Version: 8.20.00.951

File: intel/dsp fw release v958.bin

Version: 8.20.00.958

Link: intel/dsp_fw_release.bin -> dsp_fw_release_v958.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_bxtn_v430.bin

Version: 9.00.00.430

File: intel/dsp_fw_bxtn_v702.bin

Version: 9.00.00.702

File: intel/dsp_fw_bxtn_v1118.bin

Version: 9.22.00.1118

Link: intel/dsp_fw_bxtn.bin -> dsp_fw_bxtn_v1118.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

Link: intel/dsp_fw_kbl.bin -> dsp_fw_kbl_v1037.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: v50.10

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

Info: atusb/ChangeLog

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

Driver: qca - 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/rampatch_usb_0000200.bin File: qca/rampatch_usb_0000201.bin File: qca/rampatch_usb_0000300.bin File: qca/rampatch_usb_0000302.bin

File: qca/rampatch_00130300.bin File: qca/rampatch_00130302.bin

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

Driver: liquidio -- Cavium LiquidIO driver

File: liquidio/lio_210nv_nic.bin

Version: v1.1.9

File: liquidio/lio_210sv_nic.bin

Version: v1.1.9

File: liquidio/lio_410nv_nic.bin

Version: v1.1.9

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.bin

Version: DMC API/ABI ver 1 - release 26 for Skylake

File: i915/bxt_dmc_ver1_07.bin File: i915/bxt_dmc_ver1.bin

Version: DMC API/ABI ver 1 - release 07 for Broxton

File: i915/kbl_dmc_ver1_01.bin File: i915/kbl_dmc_ver1.bin

Version: DMC API/ABI ver 1 - release 01 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 File: i915/skl_guc_ver6.bin

Version: Guc API/ABI ver 6 - release 1 for Skylake

License: Redistributable. See LICENSE.i915 for details

Driver: nouveau - NVIDIA GPU driver

File: nvidia/gk20a/fecs_data.bin File: nvidia/gk20a/fecs_inst.bin File: nvidia/gk20a/gpccs_data.bin File: nvidia/gk20a/gpccs_inst.bin File: nvidia/gk20a/sw_bundle_init.bin

File: nvidia/gk20a/sw ctx.bin

File: nvidia/gk20a/sw_method_init.bin File: nvidia/gk20a/sw_nonctx.bin File: nvidia/gm200/acr/bl.bin

File: nvidia/gm200/acr/ucode_load.bin File: nvidia/gm200/acr/ucode_unload.bin

File: nvidia/gm200/gr/fecs_bl.bin
File: nvidia/gm200/gr/fecs_data.bin
File: nvidia/gm200/gr/fecs_inst.bin
File: nvidia/gm200/gr/fecs_sig.bin
File: nvidia/gm200/gr/gpccs_bl.bin
File: nvidia/gm200/gr/gpccs_data.bin
File: nvidia/gm200/gr/gpccs_inst.bin
File: nvidia/gm200/gr/gpccs_sig.bin
File: nvidia/gm200/gr/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

File: nvidia/gm204/acr/bl.bin

File: nvidia/gm204/acr/ucode_load.bin File: nvidia/gm204/acr/ucode_unload.bin

File: nvidia/gm204/gr/fecs_bl.bin File: nvidia/gm204/gr/fecs_data.bin File: nvidia/gm204/gr/fecs_inst.bin

File: nvidia/gm204/gr/fecs_sig.bin File: nvidia/gm204/gr/gpccs_bl.bin File: nvidia/gm204/gr/gpccs_data.bin File: nvidia/gm204/gr/gpccs_inst.bin File: nvidia/gm204/gr/gpccs_sig.bin File: nvidia/gm204/gr/sw_bundle_init.bin

File: nvidia/gm204/gr/sw_ctx.bin

File: nvidia/gm204/gr/sw_method_init.bin File: nvidia/gm204/gr/sw_nonctx.bin

File: nvidia/gm206/acr/bl.bin

File: nvidia/gm206/acr/ucode_load.bin File: nvidia/gm206/acr/ucode_unload.bin

File: nvidia/gm206/gr/fecs_bl.bin
File: nvidia/gm206/gr/fecs_data.bin
File: nvidia/gm206/gr/fecs_inst.bin
File: nvidia/gm206/gr/fecs_sig.bin
File: nvidia/gm206/gr/gpccs_bl.bin
File: nvidia/gm206/gr/gpccs_data.bin
File: nvidia/gm206/gr/gpccs_inst.bin
File: nvidia/gm206/gr/gpccs_sig.bin
File: nvidia/gm206/gr/gpccs_sig.bin
File: nvidia/gm206/gr/sw_bundle_init.bin

File: nvidia/gm206/gr/sw_ctx.bin

File: nvidia/gm206/gr/sw_method_init.bin File: nvidia/gm206/gr/sw_nonctx.bin

File: nvidia/gm20b/acr/bl.bin

File: nvidia/gm20b/acr/ucode_load.bin File: nvidia/gm20b/gr/fecs_bl.bin File: nvidia/gm20b/gr/fecs_data.bin File: nvidia/gm20b/gr/fecs_inst.bin File: nvidia/gm20b/gr/fecs_sig.bin File: nvidia/gm20b/gr/gpccs_data.bin File: nvidia/gm20b/gr/gpccs_inst.bin File: nvidia/gm20b/gr/gpccs_inst.bin File: nvidia/gm20b/gr/sw_bundle_init.bin

File: nvidia/gm20b/gr/sw_ctx.bin

File: nvidia/gm20b/gr/sw_method_init.bin File: nvidia/gm20b/gr/sw_nonctx.bin

File: nvidia/gp100/acr/bl.bin

File: nvidia/gp100/acr/ucode_load.bin File: nvidia/gp100/acr/ucode_unload.bin File: nvidia/gp100/gr/fecs_bl.bin File: nvidia/gp100/gr/fecs_data.bin

File: nvidia/gp100/gr/fecs_inst.bin File: nvidia/gp100/gr/fecs_sig.bin File: nvidia/gp100/gr/gpccs_bl.bin File: nvidia/gp100/gr/gpccs_data.bin File: nvidia/gp100/gr/gpccs_inst.bin File: nvidia/gp100/gr/gpccs_sig.bin File: nvidia/gp100/gr/sw_bundle_init.bin File: nvidia/gp100/gr/sw ctx.bin

File: nvidia/gp100/gr/sw_method_init.bin File: nvidia/gp100/gr/sw_nonctx.bin

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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

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Driver: hfi1 - Intel OPA Gen 1 adapter

File: hfi1 dc8051.fw

Version: 0.35 File: hfi1 fabric.fw File: hfi1_pcie.fw File: hfi1_sbus.fw File: hfi1_platform.dat

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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

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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
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Driver: mtk-vpu - Mediatek VPU video processing unit driver
File: vpu_d.bin File: vpu_p.bin
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MediaTek Inc. grants permission to use and redistribute aforementioned firmware files for the use with devices containing MediaTek chipsets, but not as 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 or the GNU Lesser General Public License.

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Driver: rk3399-dptx - ROCKCHIP rk3399 dptx firmware

File: rockchip/dptx.bin

Version: 3.1

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Fast discrete Fourier and cosine transforms and inverses author: Monty xiphmont@mit.edu modifications

by: Monty last modification date: Jul 1 1996

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

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

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- 11. [12] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
- 12. [13] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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- 34. [37]Derek Mulcahy <derek@toybox.demon.co.uk> and [38]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
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- ♦ pgen2 Unspecified
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1. 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.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
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2.3.2	2.3.1	2002-2003	PSF	yes

2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5.2	2008	PSF	-
				yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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Independent implementation of MD5 (<u>RFC 1321</u>).

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The original and principal author of md5.h is L. Peter Deutsch < ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed

```
references to Ghostscript; clarified derivation from <u>RFC 1321</u>; now handles byte order either statically or dynamically.
```

1999-11-04 lpd Edited comments slightly for automatic TOC extraction. 1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);

```
added conditionalization for C++ compilation from Martin
Purschke cpurschke@bnl.gov.
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1999-05-03 lpd Original version.

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as a successor of a language called ABC. Guido remains Python's

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in Reston, Virginia where he released several versions of the

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from			le? (1)	0.9.0) thru 1.2	1991-1995	CWI	yes	
1.3 thru 1.5.2 1.2		1995-	1999 CN	RI	yes				
1.6	1.5.2	2000	CNRI	no					
2.0	1.6	2000	BeOpen.	com no					
1.6.1	1.6	2001	CNRI	no					
2.1	2.0+1.6	.1 2001	PSF	no					
2.0.1	2.0+1.6	5.1 2001	PSF	yes					
2.1.1	2.1+2.0	0.1 2001	PSF	yes					
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File: comm_lib.h

3.

/ crypto/aes/aes.h -- mode:C; c-file-style: "eay" -- //

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* / File Name list: aes.h, aes_locl.h

4.

/ crypto/aes/aes_core.c -- mode: C; c-file-style: "eay" -- //*

- ♦ rijndael-alg-fst.c *
- ♦ @version 3.0 (December 2000) *
- ◆ Optimised ANSI C code for the Rijndael cipher (now AES) *
- ♦ @author Vincent Rijmen <<u>vincent.rijmen@esat.kuleuven.ac.be</u>>
- ♦ @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
- ♦ @author Paulo Barreto paulo.barreto@terra.com.br> *
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5.

EDIT HISTORY FOR FILE

\$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes.h#1 \$ \$DateTime: 2006/12/11 00:43:21 \$ \$Author: davidf \$

when who what, where, why

```
11/12/04 rv changes to correct LINT errors
02/02/04 rwh Small mods to open source.
```

/

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Dr B. R. Gladman < brace gladman.uk.net > 1st June 2001.

```
/
File: aes.h
```

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\$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes_tab.h#1 \$ \$DateTime: 2006/12/11 00:43:21 \$ \$Author: davidf \$

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#

File: Conftest.py

7.

/ **

.

- ♦ Fowler/Noll/Vo- hash *
- ♦ The basis of this hash algorithm was taken from an idea sent
- ♦ as reviewer comments to the IEEE POSIX P1003.2 committee by: *
- ♦ Phong Vo (http://www.research.att.com/info/kpv/)
- ♦ Glenn Fowler (http://www.research.att.com/~gsf/) *
- ♦ In a subsequent ballot round: *
- ◆ Landon Curt Noll (http://www.isthe.com/chongo/) *
- improved on their algorithm. Some people tried this hash
- ♦ and found that it worked rather well. In an EMail message
- ♦ to Landon, they named it the "Fowler/Noll/Vo" or FNV hash. *
- ♦ FNV hashes are designed to be fast while maintaining a low
- ♦ collision rate. The FNV speed allows one to quickly hash lots

- of data while maintaining a reasonable collision rate. See: *
- http://www.isthe.com/chongo/tech/comp/fnv/index.html *
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- ♦ By:
- ♦ chongo <Landon Curt Noll> ∧oo∧
- ♦ http://www.isthe.com/chongo/ *
- ♦ Share and Enjoy! :-) / File: fm_fnv_hash.h, fm_fnv_hash.c

/

- ◆ \$Header: //source/qcom/qct/core/api/kernel/main/latest/libstd/stringl/stringl.h#13 \$
- ◆ \$DateTime: 2013/07/24 11:35:54 \$ /

/ \$OpenBSD: string.h,v 1.17 2006/01/06 18:53:04 millert Exp \$ // \$NetBSD: string.h,v 1.6 1994/10/26 00:56:30 cgd Exp \$ /

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/ zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.3, July 18th, 2005

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- ♦ First, the polynomial itself and its table of feedback terms. The
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- ♦ Note that we take it "backwards" and put the highest-order term in
- ♦ the lowest-order bit. The X^32 term is "implied"; the LSB is the
- ♦ X^31 term, etc. The X^0 term (usually shown as "+1") results in
- ♦ the MSB being 1 *
- ♦ Note that the usual hardware shift register implementation, which
- is what we're using (we're merely optimizing it by doing eight-bit
- chunks at a time) shifts bits into the lowest-order term. In our
- ♦ implementation, that means shifting towards the right. Why do we
- ♦ do it this way? Because the calculated CRC must be transmitted in
- order from highest-order term to lowest-order term. UARTs transmit
- characters in order from LSB to MSB. By storing the CRC this way
- we hand it to the UART in the order low-byte to high-byte; the UART
- ♦ sends each low-bit to hight-bit; and the result is transmission bit
- ♦ by bit from highest- to lowest-order term without requiring any bit
- ♦ shuffling on our part. Reception works similarly *
- ♦ The feedback terms table consists of 256, 32-bit entries. Notes *
- ◆ The table can be generated at runtime if desired; code to do so
- ♦ is shown later. It might not be obvious, but the feedback
- ♦ terms simply represent the results of eight shift/xor opera
- ♦ tions for all combinations of data and CRC register values *
- ♦ The values must be right-shifted by eight bits by the "updcrc
- ♦ logic; the shift must be unsigned (bring in zeroes). On some
- ♦ hardware you could probably optimize the shift in assembler by
- ♦ using byte-swap instructions
- ♦ polynomial \$edb88320

/

The AES algorithm Rijndael implemented for block and key sizes of 128, 192 and 256 bits (16, 24 and 32 bytes) by Brian Gladman.

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