

# **Open source software licenses**

**TJA665**

## Resources list

Resources	License
buildroot	GPLv2+
avahi	LGPLv2.1+
backports	GPLv2
busybox	GPLv2
can-utils	GPLv2
dbus	AFLv2.1 GPLv2+
dhrystone	LLVM
e2fsprogs	GPLv2, libuuid BSD-3c, libss and libet MIT-like with advertising clause
e2fsprogs	GPLv2, libuuid BSD-3c, libss and libet MIT-like with advertising clause
ejre	BCL
ethtool	GPLv2
expat	MIT
firmware-imx	Freescale Semiconductor Software License Agreement, Atheros license (ath6k)
gpu-viv-bin-mx6q	Freescale Semiconductor Software License Agreement

Resources	License
imx-lib	LGPLv2.1+
gdb	GPLv2+ LGPLv2+ GPLv3+ LGPLv3+
genext2fs	GPLv2
hostapd	GPLv2/BSD-3c
hostapdrtl	GPLv2/BSD-3c
ifplugd	GPLv2
iftop	GPLv2+
inotify-tools	GPL
iproute2	GPLv2
iw	iw license
kmod	LGPLv2.1+
libcurl	ICS
libdaemon	LGPLv2.1+
libfuse	GPLv2 LGPLv2.1
libnl	LGPLv2.1+
libpcap	BSD-3c

Resources	License
libusb	LGPLv2.1+
linux-firmware	Proprietary
lvm2	GPLv2
memstat	GPL
nano	GPLv3+
ncurses	MIT with advertising clause
nss-mdns	GPLv2.1
ntfs-3g	GPLv2+ LGPLv2+
ntp	ntp license
openssh	BSD
openssl	OpenSSL or SSLeay
parted	GPLv3+
popt	MIT
readline	GPLv3+
rsyslog	GPLv3
rtl8188eu	GPLv2+

Resources	License
rtl8192cu	GPLv2+
samba	GPLv3+
socketcand	GPLv2
sqlite	Public domain
tzdata	Public domain
uboot-tools	GPLv2+
uboot-tools	GPLv2+
udev	GPLv2+
unionfs	BSD-3c
usbutils	GPLv2+
util-linux	GPLv2+, BSD-4c, libblkid and libmount LGPLv2.1+, libuuid BSD-3c
wireless_tools	GPLv2
zlib	zlib license
uboot	GPLv2+
linux	GPLv2
autoconf	GPLv3+ with exceptions

Resources	License
automake	GPLv2+
bison	GPLv3+
cmake	BSD-3c
expat	MIT
fakeroot	GPLv3+
flex	FLEX
gettext	GPLv2+
gperf	GPLv3+
intltool	GPLv2+
libtool	GPLv2+
lzop	GPLv2+
module-init-tools	GPLv2+
ncurses	MIT with advertising clause
pkgconf	pkgconf license
zic	Public domain
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Resources	License
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m4	GPLv3+



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.....: buildroot: COPYING file:.....

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Theodore Ts'o 23-June-2007

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

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```
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```

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```
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#ifdef NEED_SYS_ERRLIST extern char const * const sys_errlist[]; extern const int sys_nerr; #endif
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```

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

That's all there is to it!

.....: linux-firmware: LICENCE.ralink-firmware.txt file:.....

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.....: linux-firmware: WHENCE file:.....

\*\*\*\*\* \* WHENCE \* \*\*\*\*\*

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

-----  
Driver: ambassador -- Madge Ambassador (Collage PCI 155 Server) ATM NIC.  
File: atmsar11.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:  
Madge Ambassador ATM Adapter microcode. Copyright (C) 1995-1999 Madge Networks Ltd.  
This microcode data is placed under the terms of the GNU General Public License. The GPL is contained in /usr/doc/copyright/GPL on a Debian system and in the file COPYING in the Linux kernel source.

We would prefer you not to distribute modified versions without consultation and not to ask for assembly/other microcode source.

-----  
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 "ESSdrops binary dsp code images on our heads, but we don't get to see specs on the dsp."

-----  
Driver: snd-ymfpici -- 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 in 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.binFile: advansys/3550.binFile: advansys/38C0800.binFile:  
advansys/38C1600.bin  
Licence: BSD, no source available.  
Found in hex form in kernel source.

-----  
Driver: qla1280 - Qlogic QLA 1240/1x80/1x160 SCSI support  
File: qllogic/1040.binFile: qllogic/1280.binFile: qllogic/12160.bin  
Licence: Allegedly GPLv2+, but no source visible. Marked:  
QLOGIC LINUX SOFTWARE QLogic ISP1280/ device driver for Linux 2.2.x and 2.4.x Copyright  
(C) 2001 Qlogic Corporation (www.qlogic.com)

-----  
Driver: smctr -- SMC ISA/MCA Token Ring adapter  
File: tr\_smctr.binVersion: 6.3C1Info: MCT.BIN v6.3C1 03/01/95  
Original licence info:  
\* This firmware is licensed to you strictly for use in conjunction \* with the use of SMC TokenRing  
adapters. There is no warranty \* expressed or implied about its fitness for any purpose.

-----  
Driver: kaweth -- USB KLSI KL5USB101-based Ethernet device  
File: kaweth/new\_code.binFile: kaweth/new\_code\_fix.binFile: kaweth/trigger\_code.binFile:  
kaweth/trigger\_code\_fix.bin  
Licence: Unknown  
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.fwFile: keyspan/usa18x.fwFile: keyspan/usa19.fwFile: keyspan/usa19qi.fwFile:  
keyspan/usa19qw.fwFile: keyspan/usa19w.fwFile: keyspan/usa28.fwFile: keyspan/usa28xa.fwFile:  
keyspan/usa28xb.fwFile: keyspan/usa28x.fwFile: keyspan/usa49w.fwFile: keyspan/usa49wlc.fw  
Converted from Intel HEX files, used in our binary representation of ihex.  
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requires the inclusion of this statement."

-----  
Driver: keyspan\_pda -- USB Keyspan PDA single-port serial device  
File: keyspan\_pda/keyspan\_pda.fwSource: keyspan\_pda/keyspan\_pda.S  
File: keyspan\_pda/xircom\_pgs.fwSource: keyspan\_pda/xircom\_pgs.S  
Source: keyspan\_pda/Makefile  
Licence: GPLv2+  
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.fwVersion: 1.1.1.131Info: DATE=2001dec06  
File: emi26/firmware.fwVersion: 1.0.2.916Info: 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



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-----  
Driver: emi62 -- EMI 6|2m USB Audio interface  
File: emi62/bitstream.fwVersion: 1.0.0.191Info: DATE= 2002oct28  
File: emi62/loader.fwSource: EMILOAD.HEXVersion: 1.0.2.002Info: DATE=10.01.2002  
File: emi62/midi.fwSource: EMI62MFW.HEXVersion: 1.04.062Info: DATE=16.10.2002  
File: emi62/spdif.fwSource: EMI62SFW.HEXVersion: 1.04.062Info: 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.fwInfo: firmware 9/10/04 FW3410\_Special\_StartWdogOnStartPort  
File: ti\_5052.fwInfo: 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.fwFile: mts\_gsm.fwFile: 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.fwFile: mts\_mt9234zba.fw  
Licence: Unknown

-----  
Driver: whiteheat -- USB ConnectTech WhiteHEAT serial device  
File: whiteheat.fwVersion: 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: 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: dabusb/firmware.fwFile: dabusb/bitstream.bin



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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.fwFile: edgeport/boot2.fwFile: edgeport/down.fwFile: 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

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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.binSource: dsp56k/bootstrap.asmSource: dsp56k/MakefileSource:

dsp56k/concat-bootstrap.pl

Licence: GPLv2 or later

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.cspFile: sb16/alaw\_main.cspFile: sb16/ima\_adpcm\_init.cspFile:

sb16/ima\_adpcm\_playback.cspFile: sb16/ima\_adpcm\_capture.csp

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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.binVersion: 1.19.38 TPFile: ql2200\_fw.binVersion: 2.02.08 TPFile:

ql2300\_fw.binVersion: 3.03.28 IPXFile: ql2322\_fw.binVersion: 3.03.28 IPXFile:

ql2400\_fw.binVersion: 7.03.00 MIDFile: ql2500\_fw.binVersion: 7.03.00 MIDQ

Licence: Redistributable. See LICENCE.qla2xxx for details

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

-----  
Driver: orinoco - Agere/Prism/Symbol Orinoco support

File: agere\_sta\_fw.binVersion: 9.48 Hermes IFile: agere\_ap\_fw.binVersion: 9.48 Hermes I

Licence: Redistributable. See LICENCE.agere for details

-----  
Driver: ar9170 - Atheros 802.11n "otus" USB

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

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

-----  
Driver: ath9k\_htc - Atheros HTC devices (USB)

File: ar9271.fwFile: ar7010.fwFile: ar7010\_1\_1.fwFile: htc\_9271.fwVersion: 1.3File:

htc\_7010.fwVersion: 1.3

Licence: Redistributable. See LICENCE.atheros\_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.sysFile: slicoss/gbrcvucode.sysFile: slicoss/oasisdbgdownload.sysFile: slicoss/oasisdownload.sysFile: slicoss/oasisrcvucode.sys

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Found in hex form in kernel source.

Driver: sxg - Alacritech IS-NIC products

File: sxg/saharadownloadB.sysFile: sxg/saharadbdownloadB.sys

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

File: cxgb3/t3b\_psrpm-1.1.0.binFile: cxgb3/t3c\_psrpm-1.1.0.binFile: cxgb3/t3fw-7.0.0.binFile:

cxgb3/t3fw-7.1.0.binFile: cxgb3/t3fw-7.4.0.binFile: cxgb3/t3fw-7.10.0.binFile: cxgb3/t3fw-7.12.0.bin

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

File: cxgb3/ael2005\_opt\_edc.binFile: cxgb3/ael2005\_twx\_edc.binFile: cxgb3/ael2020\_twx\_edc.bin

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

File: cxgb4/t4fw-1.11.27.0.binLink: cxgb4/t4fw.bin -> t4fw-1.11.27.0.binFile: cxgb4/t5fw-

1.11.27.0.binLink: cxgb4/t5fw.bin -> t5fw-1.11.27.0.bin

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

Driver: e100 -- Intel PRO/100 Ethernet NIC

File: e100/d101m\_ucode.binFile: e100/d101s\_ucode.binFile: e100/d102e\_ucode.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.binFile: 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.binFile: tigon/tg3\_tso.binFile: tigon/tg3\_tso5.binFile: tigon/tg357766.bin  
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Found in hex form in kernel source.

-----  
Driver: starfire - Adaptec Starfire/DuraLAN support  
File: adaptec/starfire\_rx.binFile: 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: i2400m-usb - Intel 2400 Wireless WiMAX Connection over USB  
File: i2400m-fw-usb-1.4.sbcfFile: i2400m-fw-usb-1.5.sbcfFile: i6050-fw-usb-1.5.sbcf  
Licence: Redistributable. See LICENCE.i2400m for details  
Also available from <http://linuxwimax.org/Download>

-----  
Driver: libertas - Marvell Libertas fullmac-type 802.11b/g cards  
File: libertas/cf8381.binFile: libertas/cf8381\_helper.binFile: libertas/cf8385.binFile: libertas/cf8385\_helper.binFile: libertas/gspi8682.binFile: libertas/gspi8682\_helper.binFile: libertas/gspi8686\_v9.binFile: libertas/gspi8686\_v9\_helper.binFile: libertas/gspi8688.binFile: libertas/gspi8688\_helper.binFile: libertas/sd8385.binFile: libertas/sd8385\_helper.binFile: libertas/sd8682.binFile: libertas/sd8682\_helper.binFile: libertas/sd8686\_v8.binFile: libertas/sd8686\_v8\_helper.binFile: libertas/sd8686\_v9.binFile: libertas/sd8686\_v9\_helper.binFile: libertas/usb8388\_v5.binFile: libertas/usb8388\_v9.binFile: libertas/usb8682.binFile: mrvl/sd8688.binLink: libertas/sd8688.bin -> ../mrvl/sd8688.binFile: mrvl/sd8688\_helper.binLink: libertas/sd8688\_helper.bin -> ../mrvl/sd8688\_helper.bin  
Licence: Redistributable. See LICENCE.Marvell for details. Extracted fromLinux driver tarballs downloaded from Marvell's "Extranet" with permission.

-----  
Driver: libertas - Marvell Libertas 802.11b/g cards, OLPC firmware  
File: libertas/lbtf\_sdio.binVersion: 9.0.7.p4  
File: lbtf\_usb.binVersion: 5.132.3.p1  
File: libertas/usb8388\_olpc.binVersion: 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.fwFile: mwl8k/helper\_8687.fwFile: mwl8k/fmimage\_8366.fwFile: mwl8k/fmimage\_8366\_ap-1.fwFile: mwl8k/fmimage\_8366\_ap-2.fwFile: mwl8k/fmimage\_8366\_ap-3.fwVersion: 5.2.8.16File: mwl8k/helper\_8366.fw  
File: mwl8k/fmimage\_8764\_ap-1.fwVersion: 7.4.0.9  
Licence: Redistributable. See LICENCE.Marvell for details. 8687 imagesdownloaded from Marvell's "Extranet" with permission. 8366 images contributeddirectly by Marvell.

-----  
Driver: mwifiex - Marvell Wi-Fi fullmac-type 802.11n/ac cards  
File: mrvl/sd8787\_uapsta.binVersion: 14.66.9.p96  
File: mrvl/sd8797\_uapsta.binVersion: 14.66.11.p151  
File: mrvl/sd8897\_uapsta.binVersion: 15.69.2.p11  
File: mrvl/usb8797\_uapsta.binVersion: 14.69.11.p179  
File: mrvl/pcie8897\_uapsta.binVersion: 15.69.2.p11  
Licence: Redistributable. See LICENCE.Marvell for details. Originates



from <http://git.marvell.com/?p=mwifiex-firmware.git>

---

Driver: iwlwifi - Intel Wireless Wifi

- File: iwlwifi-3945-2.ucodeVersion: 15.32.2.9
- File: iwlwifi-4965-2.ucodeVersion: 228.61.2.24
- File: iwlwifi-5000-1.ucodeVersion: 5.4.A.11 (aka 5.4.1.16)
- File: iwlwifi-5000-2.ucodeVersion: 8.24.2.12
- File: iwlwifi-5000-5.ucodeVersion: 8.83.5.1
- File: iwlwifi-5150-2.ucodeVersion: 8.24.2.2
- File: iwlwifi-1000-3.ucodeVersion: 128.50.3.1
- File: iwlwifi-1000-5.ucodeVersion: 39.31.5.1
- File: iwlwifi-6000-4.ucodeVersion: 9.221.4.1
- File: iwlwifi-6050-4.ucodeVersion: 9.201.4.1
- File: iwlwifi-6050-5.ucodeVersion: 41.28.5.1
- File: iwlwifi-6000g2a-5.ucodeVersion: 17.168.5.3
- File: iwlwifi-6000g2a-6.ucodeVersion: 18.168.6.1
- File: iwlwifi-6000g2b-5.ucodeVersion: 17.168.5.1
- File: iwlwifi-6000g2b-6.ucodeVersion: 18.168.6.1
- File: iwlwifi-135-6.ucodeVersion: 18.168.6.1
- File: iwlwifi-100-5.ucodeVersion: 39.31.5.1
- File: iwlwifi-105-6.ucodeVersion: 18.168.6.1
- File: iwlwifi-2030-6.ucodeVersion: 18.168.6.1
- File: iwlwifi-2000-6.ucodeVersion: 18.168.6.1
- File: iwlwifi-7260-7.ucodeVersion: 22.1.7.0
- File: iwlwifi-7260-8.ucodeVersion: 22.24.8.0
- File: iwlwifi-7260-9.ucodeVersion: 25.222.9.0
- File: iwlwifi-3160-7.ucodeVersion: 22.1.7.0
- File: iwlwifi-3160-8.ucodeVersion: 22.24.8.0
- File: iwlwifi-3160-9.ucodeVersion: 25.222.9.0
- File: iwlwifi-7265-8.ucodeVersion: 22.24.8.0
- File: iwlwifi-7265-9.ucodeVersion: 25.222.9.0

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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: 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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Found in hex form in kernel source.

-----  
Driver: yam - YAM driver for AX.25  
File: yam/1200.binFile: 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 \* warranty 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.cisFile: cis/PCMLM28.cisFile: cis/DP83903.cisFile: cis/NE2K.cisFile: cis/tamarack.cisFile: cis/PE-200.cisFile: cis/PE520.cisSource: cis/src/LA-PCM.cisSource: cis/src/PCMLM28.cisSource: cis/src/DP83903.cisSource: cis/src/NE2K.cisSource: cis/src/tamarack.cisSource: cis/src/PE-200.cisSource: cis/src/PE520.cis  
Licence: Dual GPLv2/MPL  
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-----  
Driver: 3c589\_cs - 3Com PCMCIA adapter  
File: cis/3CXEM556.cisSource: cis/src/3CXEM556.cis  
Licence: Dual GPLv2/MPL  
Originally developed by the pcmcia-cs projectCopyright (C) 1998, 1999, 2000 David A. Hinds

-----  
Driver: 3c574\_cs - 3Com PCMCIA adapter  
File: cis/3CCFEM556.cisSource: cis/src/3CCFEM556.cis  
Licence: Dual GPLv2/MPL  
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-----  
Driver: serial\_cs - Serial PCMCIA adapter  
File: cis/MT5634ZLX.cisFile: cis/RS-COM-2P.cisFile: cis/COMpad2.cisFile: cis/COMpad4.cisSource: cis/src/MT5634ZLX.cisSource: cis/src/RS-COM-2P.cisSource:



cis/src/COMpad2.cisSource: cis/src/COMpad4.cis  
Licence: Dual GPLv2/MPL  
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-----  
Driver: serial\_cs - Serial PCMCIA adapter  
File: cis/SW\_555\_SER.cisFile: cis/SW\_7xx\_SER.cisFile: cis/SW\_8xx\_SER.cis  
Licence: GPLv3  
Copyright Sierra Wireless

-----  
Driver: smc91c92\_cs - SMC 91Cxx PCMCIA  
File: ositech/Xilinx7OD.bin  
Licence: Allegedly GPL, but no source visible. Marked: This file contains the firmware of Seven of Diamonds from OSITECH. (Special thanks to Kevin MacPherson of OSITECH)  
Found in hex form in kernel source.

-----  
Driver: cx23418 - Conexant PCI Broadcast A/V with MPEG encoder  
File: v4l-cx23418-apu.fwFile: v4l-cx23418-cpu.fwFile: v4l-cx23418-dig.fw  
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-----  
Driver: cx23885 - Conexant PCI Express Broadcast A/V decoder  
File: v4l-cx23885-avcore-01.fwFile: v4l-cx23885-enc.fw  
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-----  
Driver: cx23840 - Conexant sideport Broadcast A/V decoder  
File: v4l-cx25840.fw  
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-----  
Driver: qllogicpti - PTI Qlogic, ISP Driver  
File: qllogic/isp1000.bin  
Licence: Unknown  
Found in hex form in kernel source.

-----  
Driver: myri\_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.fwFile: bnx2x-e1h-4.8.53.0.fwFile: bnx2x-e1-5.2.7.0.fwFile: bnx2x-e1h-5.2.7.0.fwFile: bnx2x-e1-5.2.13.0.fwFile: bnx2x-e1h-5.2.13.0.fwFile: bnx2x/bnx2x-e1-6.0.34.0.fwFile: bnx2x/bnx2x-e1h-6.0.34.0.fwFile: bnx2x/bnx2x-e2-6.0.34.0.fwFile: bnx2x/bnx2x-e1-6.2.5.0.fwFile: bnx2x/bnx2x-e1h-6.2.5.0.fwFile: bnx2x/bnx2x-e2-6.2.5.0.fwFile: bnx2x/bnx2x-e1-6.2.9.0.fwFile: bnx2x/bnx2x-e1h-6.2.9.0.fwFile: bnx2x/bnx2x-e2-6.2.9.0.fwFile: bnx2x/bnx2x-e2-





7.0.20.0.fwFile: bnx2x/bnx2x-e1-7.0.20.0.fwFile: bnx2x/bnx2x-e1h-7.0.20.0.fwFile: bnx2x/bnx2x-e2-7.0.23.0.fwFile: bnx2x/bnx2x-e1-7.0.23.0.fwFile: bnx2x/bnx2x-e1h-7.0.23.0.fwFile: bnx2x/bnx2x-e2-7.0.29.0.fwFile: bnx2x/bnx2x-e1-7.0.29.0.fwFile: bnx2x/bnx2x-e1h-7.0.29.0.fwFile: bnx2x/bnx2x-e2-7.2.16.0.fwFile: bnx2x/bnx2x-e1-7.2.16.0.fwFile: bnx2x/bnx2x-e1h-7.2.16.0.fwFile: bnx2x/bnx2x-e2-7.2.51.0.fwFile: bnx2x/bnx2x-e1-7.2.51.0.fwFile: bnx2x/bnx2x-e1h-7.2.51.0.fwFile: bnx2x/bnx2x-e1-7.8.2.0.fwFile: bnx2x/bnx2x-e1h-7.8.2.0.fwFile: bnx2x/bnx2x-e2-7.8.2.0.fwFile: bnx2x/bnx2x-e1-7.8.17.0.fwFile: bnx2x/bnx2x-e1h-7.8.17.0.fwFile: bnx2x/bnx2x-e2-7.8.17.0.fwFile: bnx2x/bnx2x-e1-7.8.19.0.fwFile: bnx2x/bnx2x-e1h-7.8.19.0.fwFile: bnx2x/bnx2x-e2-7.8.19.0.fwFile: bnx2x/bnx2x-e1-7.10.51.0.fwFile: bnx2x/bnx2x-e1h-7.10.51.0.fwFile: bnx2x/bnx2x-e2-7.10.51.0.fw

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-----  
Driver: bnx2 - Broadcom NetXtremell  
File: bnx2/bnx2-mips-06-4.6.16.fwFile: bnx2/bnx2-mips-06-5.0.0.j3.fwFile: bnx2/bnx2-mips-06-5.0.0.j6.fwFile: bnx2/bnx2-mips-06-6.0.15.fwFile: bnx2/bnx2-mips-06-6.2.1.fwFile: bnx2/bnx2-mips-06-6.2.3.fwFile: bnx2/bnx2-mips-09-4.6.17.fwFile: bnx2/bnx2-mips-09-5.0.0.j3.fwFile: bnx2/bnx2-mips-09-5.0.0.j9.fwFile: bnx2/bnx2-mips-09-5.0.0.j15.fwFile: bnx2/bnx2-mips-09-6.0.17.fwFile: bnx2/bnx2-mips-09-6.2.1.fwFile: bnx2/bnx2-mips-09-6.2.1a.fwFile: bnx2/bnx2-mips-09-6.2.1b.fwFile: bnx2/bnx2-rv2p-06-4.6.16.fwFile: bnx2/bnx2-rv2p-06-5.0.0.j3.fwFile: bnx2/bnx2-rv2p-06-6.0.15.fwFile: bnx2/bnx2-rv2p-09-4.6.15.fwFile: bnx2/bnx2-rv2p-09-5.0.0.j3.fwFile: bnx2/bnx2-rv2p-09-5.0.0.j10.fwFile: bnx2/bnx2-rv2p-09-6.0.17.fwFile: bnx2/bnx2-rv2p-09ax-5.0.0.j3.fwFile: bnx2/bnx2-rv2p-09ax-5.0.0.j10.fwFile: 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.binVersion: 4.0.590  
Licence: Redistributable. See LICENCE.phanfw for details.  
Available from [http://driver.qlogic.com/firmware/netxen\\_nic/new/](http://driver.qlogic.com/firmware/netxen_nic/new/)

-----  
Driver: dvb-ttpci -- AV7110 cards  
File: av7110/bootcode.binSource: av7110/Boot.SSource: av7110/Makefile  
Licence: GPLv2 or later  
ARM assembly source code from <http://www.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 <psd@op.net>

-----  
Driver: rt61pci - Ralink RT2561, RT2561S, RT2661 wireless MACs  
File: rt2561.binFile: rt2561s.binFile: 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: rt2800pci - Ralink RT2860, RT2890, RT3090, RT3290, RT5390 wireless MACs

File: rt2860.bin File: rt3290.bin

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

Binary file supplied by Shiang Tu <shiang\_tu@ralinktech.com>. Firmware Version 34rt3290.bin is a specific firmware support the RT3290 chip. Firmware Version 37

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

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

Binary file supplied by Shiang Tu <shiang\_tu@ralinktech.com>. Firmware Version 29

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

Link: rt3070.bin -> rt2870.bin File: rt3071.bin

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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/usbduxfx2-include.asm Source: usbdux/usbduxfast\_firmware.asm Source:

usbdux/usbdux\_firmware.asm Source: usbdux/usbduxsigma\_firmware.asm

Licence: GPLv2. See source code in usbdux/ subdirectory.

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 LICENCE.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

Licence:

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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.binFile: radeon/R200\_cp.binFile: radeon/R300\_cp.binFile:

radeon/R420\_cp.binFile: radeon/RS600\_cp.binFile: radeon/RS690\_cp.binFile:

radeon/R520\_cp.binFile: radeon/R600\_pfp.binFile: radeon/R600\_me.binFile:

radeon/RV610\_pfp.binFile: radeon/RV610\_me.binFile: radeon/RV630\_pfp.binFile:

radeon/RV630\_me.binFile: radeon/RV620\_pfp.binFile: radeon/RV620\_me.binFile:

radeon/RV635\_pfp.binFile: radeon/RV635\_me.binFile: radeon/RV670\_pfp.binFile:

radeon/RV670\_me.binFile: radeon/RS780\_pfp.binFile: radeon/RS780\_me.binFile:

radeon/RV770\_pfp.binFile: radeon/RV770\_me.binFile: radeon/RV730\_pfp.binFile:

radeon/RV730\_me.binFile: radeon/RV710\_pfp.binFile: radeon/RV710\_me.bin

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Found in hex form in kernel source.

-----  
Driver: radeon - ATI Radeon

File: radeon/R600\_rlc.binFile: radeon/R600\_uvd.binFile: radeon/RS780\_uvd.binFile:

radeon/R700\_rlc.binFile: radeon/RV710\_uvd.binFile: radeon/RV710\_smc.binFile:

radeon/RV730\_smc.binFile: radeon/RV740\_smc.binFile: radeon/RV770\_smc.binFile:



radeon/RV770\_uvd.binFile: radeon/CEDAR\_me.binFile: radeon/CEDAR\_pfp.binFile:  
radeon/CEDAR\_rlc.binFile: radeon/CEDAR\_smc.binFile: radeon/CYPRESS\_me.binFile:  
radeon/CYPRESS\_pfp.binFile: radeon/CYPRESS\_rlc.binFile: radeon/CYPRESS\_uvd.binFile:  
radeon/CYPRESS\_smc.binFile: radeon/JUNIPER\_me.binFile: radeon/JUNIPER\_pfp.binFile:  
radeon/JUNIPER\_rlc.binFile: radeon/JUNIPER\_smc.binFile: radeon/REDWOOD\_me.binFile:  
radeon/REDWOOD\_pfp.binFile: radeon/REDWOOD\_rlc.binFile: radeon/REDWOOD\_smc.binFile:  
radeon/PALM\_me.binFile: radeon/PALM\_pfp.binFile: radeon/SUMO\_rlc.binFile:  
radeon/SUMO\_uvd.binFile: radeon/BARTS\_mc.binFile: radeon/BARTS\_me.binFile:  
radeon/BARTS\_pfp.binFile: radeon/BARTS\_smc.binFile: radeon/BTC\_rlc.binFile:  
radeon/CAICOS\_mc.binFile: radeon/CAICOS\_me.binFile: radeon/CAICOS\_pfp.binFile:  
radeon/CAICOS\_smc.binFile: radeon/TURKS\_mc.binFile: radeon/TURKS\_me.binFile:  
radeon/TURKS\_pfp.binFile: radeon/TURKS\_smc.binFile: radeon/CAYMAN\_mc.binFile:  
radeon/CAYMAN\_me.binFile: radeon/CAYMAN\_pfp.binFile: radeon/CAYMAN\_rlc.binFile:  
radeon/CAYMAN\_smc.binFile: radeon/SUMO\_pfp.binFile: radeon/SUMO\_me.binFile:  
radeon/SUMO2\_pfp.binFile: radeon/SUMO2\_me.binFile: radeon/ARUBA\_me.binFile:  
radeon/ARUBA\_pfp.binFile: radeon/ARUBA\_rlc.binFile: radeon/PITCAIRN\_ce.binFile:  
radeon/PITCAIRN\_mc.binFile: radeon/PITCAIRN\_mc2.binFile: radeon/PITCAIRN\_me.binFile:  
radeon/PITCAIRN\_pfp.binFile: radeon/PITCAIRN\_rlc.binFile: radeon/PITCAIRN\_smc.binFile:  
radeon/TAHITI\_ce.binFile: radeon/TAHITI\_mc.binFile: radeon/TAHITI\_mc2.binFile:  
radeon/TAHITI\_me.binFile: radeon/TAHITI\_pfp.binFile: radeon/TAHITI\_rlc.binFile:  
radeon/TAHITI\_uvd.binFile: radeon/TAHITI\_smc.binFile: radeon/VERDE\_ce.binFile:  
radeon/VERDE\_mc.binFile: radeon/VERDE\_mc2.binFile: radeon/VERDE\_me.binFile:  
radeon/VERDE\_pfp.binFile: radeon/VERDE\_rlc.binFile: radeon/VERDE\_smc.binFile:  
radeon/OLAND\_ce.binFile: radeon/OLAND\_mc.binFile: radeon/OLAND\_mc2.binFile:  
radeon/OLAND\_me.binFile: radeon/OLAND\_pfp.binFile: radeon/OLAND\_rlc.binFile:  
radeon/OLAND\_smc.binFile: radeon/HAINAN\_ce.binFile: radeon/HAINAN\_mc.binFile:  
radeon/HAINAN\_mc2.binFile: radeon/HAINAN\_me.binFile: radeon/HAINAN\_pfp.binFile:  
radeon/HAINAN\_rlc.binFile: radeon/HAINAN\_smc.binFile: radeon/BONAIRE\_ce.binFile:  
radeon/BONAIRE\_mc.binFile: radeon/BONAIRE\_mc2.binFile: radeon/BONAIRE\_me.binFile:  
radeon/BONAIRE\_mec.binFile: radeon/BONAIRE\_pfp.binFile: radeon/BONAIRE\_rlc.binFile:  
radeon/BONAIRE\_sdma.binFile: radeon/BONAIRE\_uvd.binFile: radeon/BONAIRE\_smc.binFile:  
radeon/BONAIRE\_vce.binFile: radeon/KABINI\_ce.binFile: radeon/KABINI\_me.binFile:  
radeon/KABINI\_mec.binFile: radeon/KABINI\_pfp.binFile: radeon/KABINI\_rlc.binFile:  
radeon/KABINI\_sdma.binFile: radeon/KAVERI\_ce.binFile: radeon/KAVERI\_me.binFile:  
radeon/KAVERI\_mec.binFile: radeon/KAVERI\_pfp.binFile: radeon/KAVERI\_rlc.binFile:  
radeon/KAVERI\_sdma.binFile: radeon/HAWAII\_ce.binFile: radeon/HAWAII\_mc.binFile:  
radeon/HAWAII\_mc2.binFile: radeon/HAWAII\_me.binFile: radeon/HAWAII\_mec.binFile:  
radeon/HAWAII\_pfp.binFile: radeon/HAWAII\_rlc.binFile: radeon/HAWAII\_sdma.binFile:  
radeon/HAWAII\_smc.binFile: radeon/MULLINS\_ce.binFile: radeon/MULLINS\_me.binFile:  
radeon/MULLINS\_mec.binFile: radeon/MULLINS\_pfp.binFile: radeon/MULLINS\_rlc.binFile:  
radeon/MULLINS\_sdma.binFile: radeon/pitcairn\_ce.binFile: radeon/pitcairn\_mc.binFile:  
radeon/pitcairn\_me.binFile: radeon/pitcairn\_pfp.binFile: radeon/pitcairn\_rlc.binFile:  
radeon/pitcairn\_smc.binFile: radeon/tahiti\_ce.binFile: radeon/tahiti\_mc.binFile:  
radeon/tahiti\_me.binFile: radeon/tahiti\_pfp.binFile: radeon/tahiti\_rlc.binFile:  
radeon/tahiti\_smc.binFile: radeon/verde\_ce.binFile: radeon/verde\_mc.binFile:  
radeon/verde\_me.binFile: radeon/verde\_pfp.binFile: radeon/verde\_rlc.binFile:  
radeon/verde\_smc.binFile: radeon/oland\_ce.binFile: radeon/oland\_mc.binFile:  
radeon/oland\_me.binFile: radeon/oland\_pfp.binFile: radeon/oland\_rlc.binFile:  
radeon/oland\_smc.binFile: radeon/hainan\_ce.binFile: radeon/hainan\_mc.binFile:  
radeon/hainan\_me.binFile: radeon/hainan\_pfp.binFile: radeon/hainan\_rlc.binFile:  
radeon/hainan\_smc.binFile: radeon/bonaire\_ce.binFile: radeon/bonaire\_mc.binFile:  
radeon/bonaire\_me.binFile: radeon/bonaire\_mec.binFile: radeon/bonaire\_pfp.binFile:  
radeon/bonaire\_rlc.binFile: radeon/bonaire\_sdma.binFile: radeon/bonaire\_smc.binFile:  
radeon/kabini\_ce.binFile: radeon/kabini\_me.binFile: radeon/kabini\_mec.binFile:  
radeon/kabini\_pfp.binFile: radeon/kabini\_rlc.binFile: radeon/kabini\_sdma.binFile:  
radeon/kaveri\_ce.binFile: radeon/kaveri\_me.binFile: radeon/kaveri\_mec.binFile:  
radeon/kaveri\_mec2.binFile: radeon/kaveri\_pfp.binFile: radeon/kaveri\_rlc.binFile:  
radeon/kaveri\_sdma.binFile: radeon/hawaii\_ce.binFile: radeon/hawaii\_mc.binFile:





radeon/hawaii\_me.binFile: radeon/hawaii\_mec.binFile: radeon/hawaii\_pfp.binFile:  
radeon/hawaii\_rlc.binFile: radeon/hawaii\_sdma.binFile: radeon/hawaii\_smc.binFile:  
radeon/mullins\_ce.binFile: radeon/mullins\_me.binFile: radeon/mullins\_mec.binFile:  
radeon/mullins\_pfp.binFile: radeon/mullins\_rlc.binFile: radeon/mullins\_sdma.bin  
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-----  
Driver: s2255drv  
File: f2255usb.bin

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-----  
Driver: rtl8192e - Realtek 8192 PCI wireless driver  
File: RTL8192E/\*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: qllogic/sd7220.fw  
Licence:

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Found in hex form in kernel source.

-----  
Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle IV Chipset  
File: ueagle-atm/CMV4p.bin.v2File: ueagle-atm/DSP4p.binFile: ueagle-atm/eagleIV.fwVersion: 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.binFile: ueagle-atm/CMVeiWO.bin File: ueagle-atm/CMVepFR10.bin  
File: ueagle-atm/DSP9p.bin File: ueagle-atm/eagleIII.fwFile: ueagle-atm/adi930.fw File: ueagle-atm/CMVep.bin File: ueagle-atm/CMVepFR.bin File: ueagle-atm/DSPei.binFile: ueagle-atm/CMV9i.bin File: ueagle-atm/CMVepES03.bin File: ueagle-atm/CMVepIT.bin File: ueagle-atm/DSPep.binFile: ueagle-atm/CMV9p.bin File: ueagle-atm/CMVepES.bin File: ueagle-atm/CMVepWO.bin File: ueagle-atm/eagleI.fwFile: ueagle-atm/CMVei.bin File: ueagle-atm/CMVepFR04.bin File: ueagle-atm/DSP9i.bin File: ueagle-atm/eagleII.fwVersion: 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.ncfFile: vxge/X3fw-pxe.ncfVersion: 1.8.1

Licence:

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

File: brcm/bcm43xx-0.fwFile: brcm/bcm43xx\_hdr-0.fwVersion: 610.812

Licence: Redistributable. See LICENCE.broadcom\_bcm43xx for details.

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

File: brcm/bcm4329-fullmac-4.binFile: brcm/brcmfmac43236b.binFile: brcm/brcmfmac4329-

sdio.binFile: brcm/brcmfmac4330-sdio.binFile: brcm/brcmfmac4334-sdio.binFile:

brcm/brcmfmac4335-sdio.binFile: brcm/brcmfmac43362-sdio.binFile: brcm/brcmfmac43241b0-

sdio.binFile: brcm/brcmfmac43241b4-sdio.binFile: brcm/brcmfmac43143.binFile:

brcm/brcmfmac43143-sdio.binFile: brcm/brcmfmac4354-sdio.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.txtFile: TDA7706\_OM\_v3.0.2\_boot.txt

Licence: Redistributable. See LICENCE.tda7706-firmware.txt for details. Copyright © 2010 STMicroelectronics

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

File: ti-connectivity/wl1251-fw.binVersion: 4.0.4.3.7

File: ti-connectivity/wl1251-nvs.bin

Licence: 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.binVersion: 6.1.0.50.350 (STA-only)File: ti-connectivity/wl1271-fw-

2.binVersion: 6.1.5.50.74 (STA-only)File: ti-connectivity/wl1271-fw-ap.binVersion: 6.2.1.0.54 (AP-

only)File: ti-connectivity/wl127x-fw-3.binVersion: 6.3.0.0.77File: ti-connectivity/wl127x-fw-plt-

3.binVersion: 6.3.0.0.77 (PLT-only)File: ti-connectivity/wl127x-fw-4-sr.binVersion: 6.3.5.0.98

(Single-role)File: ti-connectivity/wl127x-fw-4-mr.binVersion: 6.5.2.0.15 (Multi-role)File: ti-

connectivity/wl127x-fw-4-plt.binVersion: 6.3.5.0.98 (PLT-only)File: ti-connectivity/wl127x-fw-5-

sr.binVersion: 6.3.10.0.133 (Single-role)File: ti-connectivity/wl127x-fw-5-mr.binVersion: 6.5.7.0.42

(Multi-role)File: ti-connectivity/wl127x-fw-5-plt.binVersion: 6.3.10.0.133 (PLT-only)

File: ti-connectivity/wl128x-fw.binVersion: 7.1.5.50.74 (STA-only)File: ti-connectivity/wl128x-fw-

ap.binVersion: 7.2.1.0.54 (AP-only)File: ti-connectivity/wl128x-fw-3.binVersion: 7.3.0.0.77File: ti-

connectivity/wl128x-fw-plt-3.binVersion: 7.3.0.0.77File: ti-connectivity/wl128x-fw-4-sr.binVersion:

7.3.5.0.98 (Single-role)File: ti-connectivity/wl128x-fw-4-mr.binVersion: 7.5.2.0.15 (Multi-role)File: ti-

connectivity/wl128x-fw-4-plt.binVersion: 7.3.5.0.98 (PLT)File: ti-connectivity/wl128x-fw-5-

sr.binVersion: 7.3.10.0.133 (Single-role)File: ti-connectivity/wl128x-fw-5-mr.binVersion: 7.5.7.0.42

(Multi-role)File: ti-connectivity/wl128x-fw-5-plt.binVersion: 7.3.10.2.133 (PLT-only)

File: ti-connectivity/wl127x-nvs.binFile: ti-connectivity/wl128x-nvs.binLink: ti-connectivity/wl12xx-

nvs.bin -> wl127x-nvs.binLink: ti-connectivity/wl1271-nvs.bin -> wl127x-nvs.bin

Licence: See LICENCE.ti-connectivity for details.

The NVS file includes two parts: - radio calibration - HW configuration parameters (aka. INI values)

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



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

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

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

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

File: `ti-connectivity/wl18xx-fw.bin` Version: 8.2.0.0.100 File: `ti-connectivity/wl18xx-fw-2.bin` Version: 8.5.0.0.55 File: `ti-connectivity/wl18xx-fw-3.bin` Version: 8.8.0.0.13 File: `ti-connectivity/wl18xx-fw-4.bin` Version: 8.9.0.0.17 File: `ti-connectivity/wl18xx-conf.bin` Version: 6/5

Licence: 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: 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`

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-----  
Driver: `r8712u` - Realtek 802.11n WLAN driver for RTL8712U

File: `rtlwifi/rtl8712u.bin` Info: From Vendor's

`rtl8712_8188_8191_8192SU_usb_linux_v7_0.20100831` Reverted

`rtl8188C_8192C_8192D_usb_linux_v3.4.2_3727.20120404`

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

-----  
Driver: `rtl8192ce` - Realtek 802.11n WLAN driver for RTL8192CE

File: `rtlwifi/rtl8192cfw.bin` File: `rtlwifi/rtl8192cfwU.bin` File: `rtlwifi/rtl8192cfwU_B.bin` Info: From Vendor's `realtek/rtlwifi_linux_mac80211_0019.0320.2014V628` driver

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

-----  
Driver: `rtl8192cu` - Realtek 802.11n WLAN driver for RTL8192CU

File: `rtlwifi/rtl8192cufw.bin` File: `rtlwifi/rtl8192cufw_A.bin` File: `rtlwifi/rtl8192cufw_B.bin` File: `rtlwifi/rtl8192cufw_TMSC.bin`

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.

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Driver: `rtl8723e` - Realtek 802.11n WLAN driver for RTL8723E

Info: Taken from Realtek version

rtl\_92ce\_92se\_92de\_8723ae\_linux\_mac80211\_0007.0809.2012File: rtlwifi/rtl8723fw.binFile: 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 driverFile: rtlwifi/rtl8723befw.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.binFile: rtlwifi/rtl8723aufw\_B.binFile: rtlwifi/rtl8723aufw\_B\_NoBT.bin

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Driver: rtl8188ee - Realtek 802.11n WLAN driver for RTL8188EE

Info: Taken from Realtek version

rtl\_92ce\_92se\_92de\_8723ae\_88ee\_linux\_mac80211\_0010.0109.2013File: 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\_6773.20130222File: rtlwifi/rtl8188eufw.bin

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Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE

Info: From Vendor's realtek/rtlwifi\_linux\_mac80211\_0019.0320.2014V628 driverFile: rtlwifi/rtl8821aefw.binFile: rtlwifi/rtl8821aefw\_wowlan.bin

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Driver: rtl8192ee - Realtek 802.11n WLAN driver for RTL8192EE

Info: Taken from Realtek version

rtl\_92ce\_92se\_92de\_8723ae\_88ee\_8723be\_92ee\_linux\_mac80211\_0017.1224.2013File: rtlwifi/rtl8192eefw.bin

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Driver: r8169 - Realtek 8169/8168/8101 ethernet driver.

File: rtl\_nic/rtl8168d-1.fwFile: rtl\_nic/rtl8168d-2.fwFile: rtl\_nic/rtl8105e-1.fwFile: rtl\_nic/rtl8168e-1.fwFile: rtl\_nic/rtl8168e-2.fw

File: rtl\_nic/rtl8168e-3.fwVersion: 0.0.4

File: rtl\_nic/rtl8168f-1.fwVersion: 0.0.5

File: rtl\_nic/rtl8168f-2.fwVersion: 0.0.4

File: rtl\_nic/rtl8411-1.fwVersion: 0.0.3

File: rtl\_nic/rtl8411-2.fwVersion: 0.0.1

File: rtl\_nic/rtl8402-1.fwVersion: 0.0.1

File: rtl\_nic/rtl8106e-1.fwVersion: 0.0.1

File: rtl\_nic/rtl8106e-2.fwVersion: 0.0.1

File: rtl\_nic/rtl8168g-1.fwVersion: 0.0.3

File: rtl\_nic/rtl8168g-2.fwVersion: 0.0.1

File: rtl\_nic/rtl8168g-3.fwVersion: 0.0.1

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Driver: vt6656 - VIA VT6656 USB wireless driver

File: vntwusb.fw

Licence: Redistributable. See LICENCE.via\_vt6656 for details.



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Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT\_0x01020001.dfuFile: ar3k/ramps\_0x01020001\_26.dfuFile:  
ar3k/AthrBT\_0x01020200.dfuFile: ar3k/ramps\_0x01020200\_26.dfuFile:  
ar3k/ramps\_0x01020200\_40.dfuFile: ar3k/AthrBT\_0x31010000.dfuFile:  
ar3k/ramps\_0x31010000\_40.dfuFile: ar3k/AthrBT\_0x11020000.dfuFile:  
ar3k/ramps\_0x11020000\_40.dfuFile: ar3k/AthrBT\_0x01020201.dfuFile:  
ar3k/ramps\_0x01020201\_26.dfuFile: ar3k/ramps\_0x01020201\_40.dfuFile:  
ar3k/AthrBT\_0x41020000.dfuFile: ar3k/ramps\_0x41020000\_40.dfu  
Licence: Redistributable. See LICENCE.atheros\_firmware for details

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Driver:Atheros AR300x UART HCI Bluetooth Chip driver

File: ar3k/1020201/PS\_ASIC.pstFile: ar3k/1020201/RamPatch.txtFile:  
ar3k/1020200/ar3kbdaddr.pstFile: ar3k/1020200/PS\_ASIC.pstFile:  
ar3k/1020200/RamPatch.txtFile: ar3k/30101/ar3kbdaddr.pstFile: ar3k/30101/PS\_ASIC.pstFile:  
ar3k/30101/RamPatch.txtFile: ar3k/30000/ar3kbdaddr.pstFile: ar3k/30000/PS\_ASIC.pstFile:  
ar3k/30000/RamPatch.txt  
Licence: Redistributable. See LICENCE.atheros\_firmware for details

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Driver: ath6kl - Atheros support for AR6003

File: ath6k/AR6004/hw1.3/fw-3.binFile: ath6k/AR6004/hw1.3/bdata.binFile:  
ath6k/AR6004/hw1.2/fw-2.binFile: ath6k/AR6004/hw1.2/bdata.binFile:  
ath6k/AR6003/hw1.0/otp.bin.z77File: ath6k/AR6003/hw1.0/bdata.SD31.binFile:  
ath6k/AR6003/hw1.0/bdata.SD32.binFile: ath6k/AR6003/hw1.0/data.patch.binFile:  
ath6k/AR6003/hw1.0/bdata.WB31.binFile: ath6k/AR6003/hw1.0/athwlan.bin.z77File:  
ath6k/AR6003/hw2.1.1/fw-2.binFile: ath6k/AR6003/hw2.1.1/fw-3.binFile:  
ath6k/AR6003/hw2.1.1/otp.binFile: ath6k/AR6003/hw2.1.1/athwlan.binFile:  
ath6k/AR6003/hw2.1.1/endpointping.binFile: ath6k/AR6003/hw2.1.1/bdata.SD31.binFile:  
ath6k/AR6003/hw2.1.1/bdata.SD32.binFile: ath6k/AR6003/hw2.1.1/data.patch.binFile:  
ath6k/AR6003/hw2.1.1/bdata.WB31.binFile: ath6k/AR6003/hw2.0/otp.bin.z77File:  
ath6k/AR6003/hw2.0/bdata.SD31.binFile: ath6k/AR6003/hw2.0/bdata.SD32.binFile:  
ath6k/AR6003/hw2.0/data.patch.binFile: ath6k/AR6003/hw2.0/bdata.WB31.binFile:  
ath6k/AR6003/hw2.0/athwlan.bin.z77File: ath6k/AR6002/EEPROM.dataFile:  
ath6k/AR6002/EEPROM.binFile: ath6k/AR6002/athwlan.bin.z77File:  
ath6k/AR6002/data.patch.hw2\_0.bin  
Licence: Redistributable. See LICENCE.atheros\_firmware for details

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Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge\_eth\_z8e.datFile: myri10ge\_ethp\_z8e.datFile: myri10ge\_rss\_eth\_z8e.datFile:  
myri10ge\_rss\_ethp\_z8e.datFile: myri10ge\_eth\_big\_z8e.datFile: myri10ge\_ethp\_big\_z8e.datFile:  
myri10ge\_rss\_eth\_big\_z8e.datFile: myri10ge\_rss\_ethp\_big\_z8e.datVersion: 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.binFile: ath6k/AR6003.1/hw2.1.1/bdata.SD31.binFile:  
ath6k/AR6003.1/hw2.1.1/bdata.SD32.binFile: ath6k/AR6003.1/hw2.1.1/bdata.WB31.binFile:  
ath6k/AR6003.1/hw2.1.1/data.patch.binFile: ath6k/AR6003.1/hw2.1.1/endpointping.binFile:  
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.pstFile: ar3k/30101coex/PS\_ASIC\_aclLowPri.pstFile:  
ar3k/30101coex/PS\_ASIC\_aclHighPri.pstFile: ar3k/30101coex/PS\_ASIC.pstFile:  
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.binFile: ene-ub6250/sd\_init2.binFile: ene-ub6250/sd\_rdw.binFile: ene-ub6250/ms\_init.binFile: ene-ub6250/msp\_rdw.binFile: ene-ub6250/ms\_rdw.bin  
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Driver: isci -- Intel C600 SAS controller driver  
File: isci/isci\_firmware.binSource: isci/create\_fw.cSource: isci/create\_fw.hSource: isci/probe\_roms.hSource: isci/Makefile  
Licence: GPLv2

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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.fwFile: s5p-mfc-v6.fwFile: s5p-mfc-v6-v2.fwFile: s5p-mfc-v7.fwFile: s5p-mfc-v8.fw  
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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver  
File: carl9170-1.fwVersion: 1.9.6Source: carl9170fw/  
Downloaded from <http://linuxwireless.org/en/users/Drivers/carl9170>  
Licence: GPLv2. Some build scripts use the New BSD (3-clause) licence.

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Driver: snd-hda-codec-ca0132 - Creative Sound Core3D codec  
File: ctefx.binFile: 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.bseqVersion: 1316.02.00File: intel/ibt-hw-37.7.10-fw-1.80.2.3.d.bseqVersion: WP\_1303\_02\_patch\_0.0.65.1File: intel/ibt-hw-37.7.10-fw-1.0.2.3.d.bseqVersion: WP\_1303\_02\_patch\_0.0.65.1File: intel/ibt-hw-37.7.10-fw-1.80.1.2d.d.bseqVersion: WP\_1345\_01\_patch\_0.0.13.1File: intel/ibt-hw-37.7.10-fw-1.0.1.2d.d.bseqVersion: WP\_1345\_01\_patch\_0.0.10.1File: intel/ibt-hw-37.8.bseqVersion: 1339\_02.00File: intel/ibt-hw-37.8.10-fw-1.10.2.27.d.bseqVersion: STP2\_C0\_1339\_02\_patch\_31.1  
Licence: Redistributable. See LICENCE.ibt\_firmware for details

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Driver: btmtk\_usb - Bluetooth USB driver  
File: mt7650.bin  
Licence: Redistributable. See LICENCE.ralink\_a\_mediatek\_company\_firmware for details

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Driver: rp2 -- Control RocketPort 2 serial driver  
File: rp2.fw  
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Driver: go7007

File: go7007/s2250-1.fw File: go7007/s2250-2.fw Link: s2250.fw -> go7007/s2250-2.fw Link: s2250\_loader.fw -> go7007/s2250-1.fw

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

Licence: Redistributable. See LICENCE.go7007\_firmware for details

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Driver: microcode\_amd - AMD CPU Microcode Update Driver for Linux

File: amd-ucode/microcode\_amd.bin Version: 2013-07-10 File: amd-ucode/microcode\_amd\_fam15h.bin Version: 2013-07-10

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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

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Driver: cw1200 - ST-E CW1100/CW1200 WLAN driver

File: wsm\_22.bin Version: WSM395 Licence: Redistributable. See LICENSE.cw1200 for details.

File: sdd\_sagrad\_1091\_1098.bin

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Driver: BFA/BNA - Brocade Adapter FC/FCOE drivers

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

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..... memstat: debian/copyright  
file:.....

This is Debian GNU/Linux's prepackaged version of Joshua M. Yelon's memstat, for a long time maintained upstream by Bernd Eckenfels <eck@debian.org> and now maintained by Michael Meskes <meskes@debian.org>.

This package was put together by me, Bernd Eckenfels <eck@debian.org>, from the sources, which I obtained from <http://charm.cs.uiuc.edu/~jyelon/software.html>

The debian/\* Files are based on Ian Jackson's hello Package.

All patches by me are subject to the GPL.

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----- \$Id: README,v 1.23 2006/04/22 22:19:37 tom Exp \$-----

----- README file for the ncurses package

See the file ANNOUNCE for a summary of ncurses features and ports. See the file INSTALL for instructions on how to build and install ncurses. See the file NEWS for a release history and bug-fix notes. See the file TO-DO for things that still need doing, including known bugs.

Browse the file misc/ncurses-intro.html for narrative descriptions of how to use ncurses and the panel, menu, and form libraries. Browse the file doc/html/hackguide.html for a tour of the package internals.

#### ROADMAP AND PACKAGE OVERVIEW:

You should be reading this file in a directory called: ncurses-d.d, where d.d is the current version number (see the dist.mk file in this directory for that). There should be a number of subdirectories, including `c++`, `form`, `man`, `menu`, `misc`, `ncurses`, `panel`, `progs`, `test`, `tack` and `Ada95`. (The `tack` program may be distributed separately).

A full build/install of this package typically installs several libraries, a handful of utilities, and a database hierarchy. Here is an inventory of the pieces:

The libraries are:

libncurses.a (normal) libncurses.so (shared) libncurses\_g.a (debug and trace code enabled)  
libncurses\_p.a (profiling enabled)

libpanel.a (normal) libpanel.so (shared) libpanel\_g.a (debug and trace code enabled)

libmenu.a (normal) libmenu.so (shared) libmenu\_g.a (debug enabled)

libform.a (normal) libform.so (shared) libform\_g.a (debug enabled)

If you configure using the `--enable-widenc` option, a "w" is appended to the library names (e.g., `libncursesw.a`), and the resulting libraries support wide characters, e.g., via a UTF-8 locale. The corresponding header files are compatible with the non-wide-character configuration; wide-character features are provided by `ifdef`'s in the header files. The wide-character library interfaces are not binary-compatible with the non-wide-character version.

The ncurses libraries implement the curses API. The panel, menu and form libraries implement clones of the SVr4 panel, menu and forms APIs. The source code for these lives in the `ncurses`, `panel`, `menu`, and `form` directories respectively.

In the `c++` directory, you'll find code that defines an interface to the curses, forms, menus and panels library packaged as C++ classes, and a demo program in C++ to test it. These class definition modules are not installed by the `'makeinstall.libs'` rule as `libncurses++`.

In the `Ada95` directory, you'll find code and documentation for an Ada95 binding of the curses API, to be used with the GNAT compiler. This binding is built by a normal top-level `'make'` if `configure` detects an usable version of GNAT (3.11 or above). It is not installed automatically. See the `Ada95` directory for more build and installation instructions and for documentation of the binding.

To do its job, the ncurses code needs your terminal type to be set in the environment variable `TERM` (normally set by your OS; under UNIX, `getty(1)` typically does this, but you can override it in your `.profile`); and, it needs a database of terminal descriptions in which to look up your terminal type's capabilities.

In older (V7/BSD) versions of curses, the database was a flat text file, `/etc/termcap`; in newer (USG/USL) versions, the database is a hierarchy of fast-loading binary description blocks under `/usr/lib/terminfo`. These binary blocks are compiled from an improved editable text representation called `'terminfo'` format (documented in `man/terminfo.5`). The ncurses library can use either `/etc/termcap` or the compiled binary `terminfo` blocks, but prefers the second form.

In the `'misc'` directory, there is a text file `terminfo.src`, in editable `terminfo` format, which can be used to generate the `terminfo` binaries (that's what `make install.data` does). If the package was built with the `--enable-termcap` option enabled, and the ncurses library cannot find a `terminfo` description for your terminal, it will fall back to the `termcap` file supplied with your system (which the ncurses





package installation leaves strictlyalone).

The utilities are as follows:

tic -- terminfo source to binary compiler infocmp -- terminfo binary to source decompiler/comparator clear -- emits clear-screen for current terminal tput -- shell-script access to terminal capabilities. toe -- table of entries utility tset -- terminal-initialization utility

The first two (tic and infocmp) are used for manipulating terminfo descriptions; the next two (clear and tput) are for use in shell scripts. The last (tset) is provided for 4.4BSD compatibility. The source code for all of these lives in the `progs' directory.

Detailed documentation for all libraries and utilities can be found in the `man' and `doc' directories.

An HTML introduction to ncurses, panels, and menus programming lives in the `doc/html' directory.

Manpages in HTML format are under `doc/html/man'.

The `test' directory contains programs that can be used to verify or demonstrate the functions of the ncurses libraries. See test/README for descriptions of these programs. Notably, the `ncurses' utility is designed to help you systematically exercise the library functions.

AUTHORS:

Pavel Curtis: wrote the original ncurses

Zeyd M. Ben-Halim: port of original to Linux and many enhancements.

Thomas Dickey (maintainer for 1.9.9g through 4.1, resuming with FSF's 5.0): configuration scripts, porting, mods to adhere to XSI Curses in the areas of background color, terminal modes. Also memory leak testing, the wresize, default colors and key definition extensions and numerous bug fixes (more than half of those enumerated in NEWS beginning with the internal release 1.8.9).

Florian La Roche (official maintainer for FSF's ncurses 4.2) Beginning with release 4.2, ncurses is distributed under an MIT-style license.

Eric S. Raymond: the man pages, infocmp(1), tput(1), clear(1), captinfo(1), tset(1), toe(1), most of tic(1), trace levels, the HTML intro, wgetnstr() and many other entry points, the cursor-movement optimization, the scroll-pack optimizer for vertical motions, the mouse interface and xterm mouse support, and the ncurses test program.

Juergen Pfeifer The menu and form libraries, C++ bindings for ncurses, menus, forms and panels, as well as the Ada95 binding. Ongoing support for panel.

CONTRIBUTORS:

Alexander V. Lukyanov for numerous fixes and improvements to the optimization logic.

David MacKenzie for first-class bug-chasing and methodical testing.

Ross Ridge for the code that hacks termcap parameterized strings into terminfo.

Warren Tucker and Gerhard Fuernkranz, for writing and sending the panel library.

Hellmuth Michaelis, for many patches and testing the optimization code.

Eric Newton, Ulrich Drepper, and Anatoly Ivasyuk: the C++ code.

Jonathan Ross, for lessons in using sed.

Keith Bostic (maintainer of 4.4BSD curses) for help, criticism, comments, bug-finding, and being willing to deep-six BSD curses for this one when it grew up.

Richard Stallman, for his commitment to making ncurses free software.

Countless other people have contributed by reporting bugs, sending fixes, suggesting improvements, and generally whining about ncurses :-)

BUGS: See the INSTALL file for bug and developer-list addresses. The Hacker's Guide in the doc directory includes some guidelines on how to report bugs in ways that will get them fixed most quickly.

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.....: zlib: README file:.....

### ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.8 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format). All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory. To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [zlib@gzip.org](mailto:zlib@gzip.org), or to Gilles Vollant [info@winimage.com](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [markn@ieee.org](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.8 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess [pmqs@cpan.org](mailto:pmqs@cpan.org) is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling [amk@amk.ca](mailto:amk@amk.ca) is available in Python 1.5 and



later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <[info@winimage.com](mailto:info@winimage.com)>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formerly OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly Mark Adler [jloup@gzip.org](mailto:jloup@gzip.org) [madler@alumni.caltech.edu](mailto:madler@alumni.caltech.edu)

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