

Insmod-options..txt

Note: "modinfo <module>" prints various informations about a kernel module, among them a complete and up-to-date list of insmod options. This list tends to be outdated because it is updated manually ...

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bttv.o

the bt848/878 (grabber chip) driver

insmod args:

card=n	card type, see CARDLIST for a list.
tuner=n	tuner type, see CARDLIST for a list.
radio=0/1	card supports radio
pll=0/1/2	pll settings
	0: don't use PLL
	1: 28 MHz crystal installed
	2: 35 MHz crystal installed
triton1=0/1	for Triton1 (+others) compatibility
vsfx=0/1	yet another chipset bug compatibility bit see README.quirks for details on these two.
bigendian=n	Set the endianness of the gfx framebuffer. Default is native endian.
fieldnr=0/1	Count fields. Some TV descrambling software needs this, for others it only generates 50 useless IRQs/sec. default is 0 (off).
autoload=0/1	autoload helper modules (tuner, audio). default is 1 (on).
bttv_verbose=0/1/2	verbose level (at insmod time, while looking at the hardware). default is 1.
bttv_debug=0/1	debug messages (for capture). default is 0 (off).
irq_debug=0/1	irq handler debug messages. default is 0 (off).
gbuffers=2-32	number of capture buffers for mmap'ed capture. default is 4.
gbuysize=	size of capture buffers. default and maximum value is 0x208000 (~2MB)
no_overlay=0	Enable overlay on broken hardware. There are some chipsets (SIS for example) which are known to have problems with the PCI DMA push used by bttv. bttv will disable overlay by default on this hardware to avoid crashes. With this insmod option you can override this.
no_overlay=1	Disable overlay. It should be used by broken hardware that doesn't support PCI2PCI direct transfers.
automute=0/1	Automatically mutes the sound if there is no TV signal, on by default. You might try to disable this if you have bad input signal quality which leading to unwanted sound dropouts.
chroma_agc=0/1	AGC of chroma signal, off by default.
adc_crush=0/1	Luminance ADC crush, on by default.

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i2c_udelay= Allow reduce I2C speed. Default is 5 usecs (meaning 66,67 Kbps). The default is the maximum supported speed by kernel bitbang algorithm. You may use lower numbers, if I2C messages are lost (16 is known to work on all supported cards).

bttv_gpio=0/1
 gpiomask=
 audioall=
 audiomux=

See Sound-FAQ for a detailed description.

remap, card, radio and pll accept up to four comma-separated arguments (for multiple boards).

tuner.o

The tuner driver. You need this unless you want to use only with a camera or external tuner ...

insmod args:

debug=1	print some debug info to the syslog
type=n	type of the tuner chip. n as follows: see CARDLIST for a complete list.
pal=[bdgil]	select PAL variant (used for some tuners only, important for the audio carrier).

tvaudio.o

new, experimental module which is supported to provide a single driver for all simple i2c audio control chips (tda/tea*).

insmod args:

tda8425 = 1	enable/disable the support for the
tda9840 = 1	various chips.
tda9850 = 1	The tea6300 can't be autotdetected and is
tda9855 = 1	therefore off by default, if you have
tda9873 = 1	this one on your card (STB uses these)
tda9874a = 1	you have to enable it explicitly.
tea6300 = 0	The two tda985x chips use the same i2c
tea6420 = 1	address and can't be distingished from
pic16c54 = 1	each other, you might have to disable
	the wrong one.
debug = 1	print debug messages

insmod args for tda9874a:

tda9874a_SIF=1/2	select sound IF input pin (1 or 2) (default is pin 1)
tda9874a_AMSEL=0/1	auto-mute select for NICAM (default=0) Please read note 3 below!
tda9874a_STD=n	select TV sound standard (0..8): 0 - A2, B/G 1 - A2, M (Korea) 2 - A2, D/K (1) 3 - A2, D/K (2) 4 - A2, D/K (3) 5 - NICAM, I

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- 6 - NICAM, B/G
- 7 - NICAM, D/K (default)
- 8 - NICAM, L

Note 1: tda9874a supports both tda9874h (old) and tda9874a (new) chips.

Note 2: tda9874h/a and tda9875 (which is supported separately by tda9875.o) use the same i2c address so both modules should not be used at the same time.

Note 3: Using tda9874a_AMSEL option depends on your TV card design!

AMSEL=0: auto-mute will switch between NICAM sound
and the sound on 1st carrier (i.e. FM mono or AM).

AMSEL=1: auto-mute will switch between NICAM sound
and the analog mono input (MONOIN pin).

If tda9874a decoder on your card has MONOIN pin not connected, then use only tda9874_AMSEL=0 or don't specify this option at all.

For example:

card=65 (FlyVideo 2000S) - set AMSEL=1 or AMSEL=0

card=72 (Prolink PV-BT878P rev.9B) - set AMSEL=0 only

msp3400.o

The driver for the msp34xx sound processor chips. If you have a stereo card, you probably want to insmod this one.

insmod args:

- debug=1/2 print some debug info to the syslog,
 2 is more verbose.
- simple=1 Use the "short programming" method. Newer
 msp34xx versions support this. You need this
 for dbx stereo. Default is on if supported by
 the chip.
- once=1 Don't check the TV-stations Audio mode
 every few seconds, but only once after
 channel switches.
- amsound=1 Audio carrier is AM/NICAM at 6.5 Mhz. This
 should improve things for french people, the
 carrier autoscan seems to work with FM only...

tea6300.o - OBSOLETE (use tvaudio instead)

The driver for the tea6300 fader chip. If you have a stereo card and the msp3400.o doesn't work, you might want to try this one. This chip is seen on most STB TV/FM cards (usually from Gateway OEM sold surplus on auction sites).

insmod args:

- debug=1 print some debug info to the syslog.

tda8425.o - OBSOLETE (use tvaudio instead)

The driver for the tda8425 fader chip. This driver used to be part of bttv.c, so if your sound used to work but does not anymore, try loading this module.

insmod args:

- debug=1 print some debug info to the syslog.

tda985x.o - OBSOLETE (use tvaudio instead)

The driver for the tda9850/55 audio chips.

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insmod args:
  debug=1      print some debug info to the syslog.
  chip=9850/9855  set the chip type.
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