

[PATCH 000/180] V4L/DVB updates

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-09/msg07487.html>

- *From:* mchehab@xxxxxxxxxxxxxx
 - *Date:* Tue, 26 Sep 2006 12:33:09 -0300
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Linus,

Please pull from master branch at:
kernel.org/pub/scm/linux/kernel/git/mchehab/v4l-dvb.git

This series contains lots of improvements, including:

- [PATCH] Freecom DVB-T stick with ID 14aa:0225
- Added support for the md8800 quadro board
- Added PCI ID for AverMedia DVB-T 777 with SAA7133
- Added PCI ID of the Genius VideoWonder Dual Cardbus
- Removed the remaining config.h stuff
- V4L2 conversion: radio_aimslab
- V4L2 conversion: radio_aztech
- Fix: compile for radio aimslab and aztech with V4L2 only
- V4L2 conversion: radio_gemtek
- V4L2 conversion: radio_gemtek-pci
- V4L2 conversion: radio-maestro
- V4L2 conversion: radio-rtrack2
- V4L2 conversion: radio-sf16fmi
- A small fix at fmi->flags logic
- V4L2 conversion: radio-sf16fmr2
- V4L2 conversion: radio-terratec
- V4L2 conversion: radio-typhoon
- V4L2 conversion: radio-zoltrix
- Cx88: add initial support for Hauppauge HVR3000 trimode card
- Cx88: add autodetection support for AverMedia M150-D
- Cx88: add support for Norwood PCI TV Tuner (non-pro)
- Cx88: Shenzhen Tungsten Ages Tech TE-DTV-250 / Swann PCI TV Tuner card support
- V4L2 conversion: radio-trust
- V4L2 conversion: radio-maxiradio
- Remove of couple of useless lines
- Fix some typos on ioctl handling function
- Included missing linux/version.h
- Clean up some post mpeg-controls issues in pvrusb2
- Eliminate hardcoded limits in VIDIOC_[S|TRY]_FMT for pvrusb2
- Make it possible for run-time calculation of control min/max in pvrusb2
- Force horizontal resolution limits in the pvrusb2 driver
- Ttpci/: remove unneeded #include <linux/byteorder/swabb.h>'s

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- Dvb_attach modifications to dvb frontend structures
- Convert SEC drivers to new frontend API
- Remove remaining static function calls
- Add dvb_attach() macro and supporting routines
- Convert DVB devices to use dvb_attach()
- Add Kconfig infrastructure for dvb_attach
- Remove frontend selection from cx88/saa7134 drivers
- Remove duplication _release() op.
- Refactor dvb_detach calls into a single dvb_frontend_detach function.
- Fix dst_ca attach
- Git-dvb: radio-sf16fmi build fix
- Add drivers for tda10086 + tda826x chips
- Add tda10086 support for TT DVB-S-1401
- Add support for Acorp TV134DS + FlyDVB-S cards.
- Tda826x: Remove 0-byte I2C write; put tuner_ops info in static struct
- Disable tda10086 debug by default.
- Fix budget-ci to use dvb_frontend_detach()
- Use dprintk in tda826x.
- Add missing KConfig I2C dependencies
- Convert radio-cadet to V4L2 API
- Cleanups and fixes for dsbr100
- Konicawc - handle errors from input_register_device()
- Add support for PAL-Nc in cx24850.
- V4L2 Conversion: saa5246a, saa5249, vino, hexium_orion, hexium_gemini
- Improved comment for AR device and fix some typos
- Add missing dvb-pll Kconfig infrastructure
- Fix tda826x detection
- Fix Circular dependencies
- Soft decision threshold
- Change BER config
- HW algo
- Dvb-pll support for MT352/ZL10353 based tuners.
- Fix dvb_pll_attach for nxt2004-based cards
- Whitespace cleanups for cx88-dvb and saa7134-dvb
- Flexcop/nxt200x attach fix
- Adding support for MT2060 and thus for some DVB-USB-devices based on it
- Cleanups for mt2060-integration
- Add support for the Artec T14
- Added support for LeadTek DVB-T USB clone
- MT2060: IF1 Offset from EEPROM, several updates
- [PATCH] dibcom mod3000p + mt2060 --- remote control
- MT2060: Code cleanups, adding to new build-mechanism
- Corrected debugging output of the mt2060
- Update for MT2060 to use dvb_tuner_ops
- Remove dib3000-common-module
- Complete rewrite of the DiB3000mc-driver
- Added missing dibx000-common code and headers
- Attach the dib3000mc correctly
- New firmware for Nova-t-usb2
- FIX_ AverTV A800 trouble
- DiB3000MC: set FE to NULL after being freed

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- Another fix for attaching the DiB3000MC
- MT2060: turn on the VGA
- Remove debug-print from dib3000mc
- On some cases, depth were not returned.
- Fix most Compat32 stuff on V4L2
- Improve hardware algorithm by setting the appropriate registers
- [av7110] Support Grundig DVB-T tuner for sub-system 13c2:0001
- LNB voltage control was inverted for the benefit of geniatch cards on Kworld
- Remove null chars from dvb names
- Make the dibx000-common-module GPL
- Git-dvb: cadet build fix
- Fix a warning on PPC64
- Fix possible crash in Hauppauge eeprom reading
- Whitespace cleanup
- [dvb_attach] dvb_frontend_detach fix
- [Inbp21] release callback fixed
- Fix "no data from ZL10353 based USB tuner" problem
- Tuning tweaks for ZL10353
- Reset USB part of DVICO Dual Digital during PCI driver attach
- Offset parameter permission were 0x666, instead of 0x664
- CONFIG_PM=n slim: drivers/media/video/*
- Fix KNC1 DVBC support
- Add support for knc one dvb-s plus with 1894:0011
- Enable audio DMA restart on channel change even when cx88-alsa is compiled
- TVP5150 routing logic were broken.
- Make tvp5150 an independent Kconfig item
- Fix an array overflow on bt866
- Added missing copyright
- Fix signedness error in drivers/media/video/vivi.c
- Ks0127: wire up i2c_add_driver() return value
- Split audio decoders from bttv
- Add some comments for Kconfig encoders/decoders itens
- Fixed module name, since it is, in fact, a decoder.
- Split audio/video encoders/decoders from main drivers
- Allow manually selecting the proper helper drivers
- Added missing KS0197 Kconfig item
- Fixes Helper module dependencies against V4L APIs
- Fix a warning caused by a typo (comma instead of dot-comma)
- Drivers/media/dvb/dvb-usb/dibusb-mb.c: NULL dereference
- PATCH: Club 3D zap250mini
- Keep the PID parse bit when resetting the output mode
- Another fix for the PID parsing
- Isl6421: Release callback installed incorrectly
- Tda9887: add configuration setting for L standard PLL gating
- Add missing v4l2_buf_type to struct v4l2_sliced_vbi_cap.
- Add u32 argument to VIDIOC_INT_RESET.
- Add YUV HM12 and VBI IVTV format documentation.
- Better temporal filter handling.
- Make saa7115 to report the complete chipset name
- Added register aliases for saa711x registers, instead of using reg numbers
- Add support for saa7111 and partial support for saa7118

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- Renamed several common structs/functions to saa711x instead of saa7115
- Cleanup: removed hardcoded tables
- Fix a typo.
- Sync'ing dvb-usb-remote with changes in USB input subsystem
- Fix scaling calculus
- Fix: There were some missing breaks at register check routine
- VIDIOC_INT_S_REGISTER is IOW, not IOR.
- Fix VIDIOC_S_FMT min/max check in pvrusb2
- VIDIOC_G_SLICED_VBI_CAP now accepts a v4l2_buf_type, make it IOWR
- Code were preventing saa7111 and saa7118 to work
- Fixes some troubles on saa7115
- Remove some dead data elements from pvrusb2 driver
- Remove CONFIG_VIDEO_PVRUSB2_24XXX from pvrusb2 driver
- Fix saa7115 miscalculation that breaks NTSC
- Improve resolution limit enforcements in pvrusb2
- Fix a typo: VRES, instead o HRES
- Adds Compro PS39U USB ID to Vicam driver
- Fix DVB Front-End Signal Strength Inconsistency
- Fix broken pvrusb2 build
- Add driver for TUA6100
- Port budget-av to use the new tua6100 driver
- V4L1 API conversion not finished yet
- Improved i2c performance on software bitbang algoritm
- Add tua6100 config wrapper
- Add module-init-tools version comment.
- Unmute/mute saa7134 when opening/closing the audio capture device.
- Export symbol saa7134_tvaudio_setmute from saa7134 for saa7134-alsa
- [PATCH] Nebula DigiTV USB RC support
- Problem with dibusb-mb.c USB IDs
- Fixes some I2C dependencies on V4L devices
- Fix AGC configuration for MOD3000P-based boards
- Copy-paste bug in videodev.c
- Tvaudio: Replaced kernel_thread() with kthread_run()
- On saa7111/7113, LUMA_CTRL need a different value
- Vivi crashes with mplayer
- Fix VIDIOC_ENUMSTD ioctl in videodev.c
- Saa7134: add card support for Proteus Pro 2309
- Av7110: FW_LOADER depemdency fixed
- Av7110: remove V4L2_CAP_VBI_CAPTURE flag
- Zoran: Implement pcipci failure check
- Zr36120: implement pcipci checks
- Extend bttv and saa7134 to check for both AGP and PCI PCI failure case
- Add a default method for VIDIOC_G_PARM
- Basic DVB-T and analog TV support for the HVR1300.
- Cx88: add autodetection for alternate revision of Leadtek PVR
- Trivial: use lowercase letters in hex subsystem ids

Cheers,
Mauro.

V4L/DVB development is hosted at <http://linuxtv.org>

Documentation/feature-removal-schedule.txt | 2
Documentation/video4linux/CARDLIST.cx88 | 8
Documentation/video4linux/CARDLIST.saa7134 | 7
Documentation/video4linux/bttv/Insmod-options | 6
Documentation/video4linux/cx2341x/README.hm12 | 116 ++
Documentation/video4linux/cx2341x/README.vbi | 45 +
drivers/media/common/Kconfig | 1
drivers/media/common/ir-keymaps.c | 79 +
drivers/media/common/saa7146_fops.c | 1
drivers/media/dvb/b2c2/Kconfig | 14
drivers/media/dvb/b2c2/flexcop-fe-tuner.c | 24
drivers/media/dvb/bt8xx/Kconfig | 14
drivers/media/dvb/bt8xx/dst.c | 9
drivers/media/dvb/bt8xx/dst_ca.c | 11
drivers/media/dvb/bt8xx/dst_common.h | 3
drivers/media/dvb/bt8xx/dvb-bt8xx.c | 37 -
drivers/media/dvb/dvb-core/Kconfig | 13
drivers/media/dvb/dvb-core/dvb_frontend.c | 42 -
drivers/media/dvb/dvb-core/dvb_frontend.h | 7
drivers/media/dvb/dvb-core/dvbdev.h | 22
drivers/media/dvb/dvb-usb/Kconfig | 17
drivers/media/dvb/dvb-usb/a800.c | 8
drivers/media/dvb/dvb-usb/cxusb.c | 11
drivers/media/dvb/dvb-usb/dibusb-common.c | 200 +++
drivers/media/dvb/dvb-usb/dibusb-mb.c | 18
drivers/media/dvb/dvb-usb/dibusb-mc.c | 41 +
drivers/media/dvb/dvb-usb/dibusb.h | 3
drivers/media/dvb/dvb-usb/digitv.c | 86 +
drivers/media/dvb/dvb-usb/dtt200u.c | 50 +
drivers/media/dvb/dvb-usb/dvb-usb-dvb.c | 20
drivers/media/dvb/dvb-usb/dvb-usb-ids.h | 124 +-
drivers/media/dvb/dvb-usb/dvb-usb-remote.c | 5
drivers/media/dvb/dvb-usb/nova-t-usb2.c | 2
drivers/media/dvb/dvb-usb/umt-010.c | 2
drivers/media/dvb/frontends/Kconfig | 71 +
drivers/media/dvb/frontends/Makefile | 8
drivers/media/dvb/frontends/bcm3510.h | 9
drivers/media/dvb/frontends/cx22700.h | 9
drivers/media/dvb/frontends/cx22702.c | 4
drivers/media/dvb/frontends/cx22702.h | 9
drivers/media/dvb/frontends/cx24110.c | 17
drivers/media/dvb/frontends/cx24110.h | 19
drivers/media/dvb/frontends/cx24123.c | 98 +
drivers/media/dvb/frontends/cx24123.h | 12
drivers/media/dvb/frontends/dib3000-common.c | 83 -
drivers/media/dvb/frontends/dib3000-common.h | 135 ---
drivers/media/dvb/frontends/dib3000.h | 11
drivers/media/dvb/frontends/dib3000mb.c | 76 +
drivers/media/dvb/frontends/dib3000mb_priv.h | 93 +

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drivers/media/dvb/frontends/dib3000mc.c | 1432 ++++++++-----
drivers/media/dvb/frontends/dib3000mc.h | 58 +
drivers/media/dvb/frontends/dib3000mc_priv.h | 428 -----
drivers/media/dvb/frontends/dibx000_common.c | 152 ++
drivers/media/dvb/frontends/dibx000_common.h | 166 ++
drivers/media/dvb/frontends/dvb-pll.c | 11
drivers/media/dvb/frontends/dvb-pll.h | 4
drivers/media/dvb/frontends/isl6421.c | 30
drivers/media/dvb/frontends/isl6421.h | 11
drivers/media/dvb/frontends/l64781.h | 10
drivers/media/dvb/frontends/lgdt330x.h | 9
drivers/media/dvb/frontends/lnbp21.c | 30
drivers/media/dvb/frontends/lnbp21.h | 12
drivers/media/dvb/frontends/mt2060.c | 367 +++++
drivers/media/dvb/frontends/mt2060.h | 35
drivers/media/dvb/frontends/mt2060_priv.h | 105 +
drivers/media/dvb/frontends/mt312.h | 10
drivers/media/dvb/frontends/mt352.c | 16
drivers/media/dvb/frontends/mt352.h | 16
drivers/media/dvb/frontends/nxt200x.h | 9
drivers/media/dvb/frontends/nxt6000.h | 9
drivers/media/dvb/frontends/or51132.h | 9
drivers/media/dvb/frontends/or51211.h | 9
drivers/media/dvb/frontends/s5h1420.h | 9
drivers/media/dvb/frontends/sp8870.h | 9
drivers/media/dvb/frontends/sp887x.h | 9
drivers/media/dvb/frontends/stv0297.h | 9
drivers/media/dvb/frontends/stv0299.c | 9
drivers/media/dvb/frontends/stv0299.h | 19
drivers/media/dvb/frontends/tda10021.c | 63 -
drivers/media/dvb/frontends/tda10021.h | 19
drivers/media/dvb/frontends/tda1004x.c | 10
drivers/media/dvb/frontends/tda1004x.h | 25
drivers/media/dvb/frontends/tda10086.c | 740 ++++++++
drivers/media/dvb/frontends/tda10086.h | 41 +
drivers/media/dvb/frontends/tda8083.h | 9
drivers/media/dvb/frontends/tda826x.c | 173 ++
drivers/media/dvb/frontends/tda826x.h | 40 +
drivers/media/dvb/frontends/tua6100.c | 205 +++
drivers/media/dvb/frontends/tua6100.h | 47 +
drivers/media/dvb/frontends/ves1820.h | 9
drivers/media/dvb/frontends/ves1x93.h | 9
drivers/media/dvb/frontends/zl10353.c | 11
drivers/media/dvb/frontends/zl10353.h | 14
drivers/media/dvb/tpci/Kconfig | 57 -
drivers/media/dvb/tpci/av7110.c | 58 -
drivers/media/dvb/tpci/av7110_av.c | 1
drivers/media/dvb/tpci/av7110_ca.c | 1
drivers/media/dvb/tpci/av7110_hw.c | 1
drivers/media/dvb/tpci/av7110_v4l.c | 3
drivers/media/dvb/tpci/budget-av.c | 184 ----

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drivers/media/dvb/ttpci/budget-ci.c | 32
drivers/media/dvb/ttpci/budget-patch.c | 17
drivers/media/dvb/ttpci/budget.c | 53 +
drivers/media/dvb/ttusb-budget/Kconfig | 14
drivers/media/dvb/ttusb-budget/dvb-ttusb-budget.c | 28
drivers/media/dvb/ttusb-dec/ttusb_dec.c | 6
drivers/media/radio/Kconfig | 30
drivers/media/radio/dsbr100.c | 198 ++-
drivers/media/radio/radio-aimslab.c | 151 +-
drivers/media/radio/radio-aztech.c | 166 ++
drivers/media/radio/radio-cadet.c | 250 ++-
drivers/media/radio/radio-gemtek-pci.c | 170 ++
drivers/media/radio/radio-gemtek.c | 165 ++
drivers/media/radio/radio-maestro.c | 197 ++-
drivers/media/radio/radio-maxiradio.c | 166 +-
drivers/media/radio/radio-rtrack2.c | 163 ++
drivers/media/radio/radio-sf16fmi.c | 158 +-
drivers/media/radio/radio-sf16fmr2.c | 223 ++-
drivers/media/radio/radio-terratec.c | 154 ++
drivers/media/radio/radio-trust.c | 188 +-
drivers/media/radio/radio-typhoon.c | 171 ++
drivers/media/radio/radio-zoltrix.c | 183 +-
drivers/media/video/Kconfig | 476 +++++-
drivers/media/video/Makefile | 45 -
drivers/media/video/bt866.c | 2
drivers/media/video/bt8xx/Kconfig | 5
drivers/media/video/bt8xx/bttv-cards.c | 2
drivers/media/video/bt8xx/bttv-driver.c | 12
drivers/media/video/bt8xx/bttv-i2c.c | 16
drivers/media/video/compat_ioctl32.c | 59 -
drivers/media/video/cx2341x.c | 25
drivers/media/video/cx25840/Kconfig | 2
drivers/media/video/cx25840/cx25840-vbi.c | 4
drivers/media/video/cx88/Kconfig | 109 --
drivers/media/video/cx88/Makefile | 7
drivers/media/video/cx88/cx88-blackbird.c | 2
drivers/media/video/cx88/cx88-cards.c | 161 ++
drivers/media/video/cx88/cx88-core.c | 13
drivers/media/video/cx88/cx88-dvb.c | 330 ++----
drivers/media/video/cx88/cx88-i2c.c | 13
drivers/media/video/cx88/cx88-input.c | 19
drivers/media/video/cx88/cx88-tvaudio.c | 5
drivers/media/video/cx88/cx88-video.c | 7
drivers/media/video/cx88/cx88.h | 5
drivers/media/video/em28xx/Kconfig | 3
drivers/media/video/em28xx/em28xx-video.c | 2
drivers/media/video/ks0127.c | 3
drivers/media/video/pvrusb2/Kconfig | 18
drivers/media/video/pvrusb2/Makefile | 6
drivers/media/video/pvrusb2/pvrusb2-ctrl.c | 21
drivers/media/video/pvrusb2/pvrusb2-cx2584x-v4l.c | 2

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drivers/media/video/pvrusb2/pvrusb2-encoder.c | 4
drivers/media/video/pvrusb2/pvrusb2-hdw-internal.h | 31
drivers/media/video/pvrusb2/pvrusb2-hdw.c | 84 +
.../media/video/pvrusb2/pvrusb2-i2c-chips-v4l2.c | 4
drivers/media/video/pvrusb2/pvrusb2-i2c-cmd-v4l2.c | 2
drivers/media/video/pvrusb2/pvrusb2-i2c-core.c | 6
drivers/media/video/pvrusb2/pvrusb2-main.c | 1
drivers/media/video/pvrusb2/pvrusb2-sysfs.c | 3
drivers/media/video/pvrusb2/pvrusb2-v4l2.c | 36 -
drivers/media/video/saa5246a.c | 1
drivers/media/video/saa5249.c | 1
drivers/media/video/saa7115.c | 1250 ++++++-----
drivers/media/video/saa711x_regs.h | 549 ++++++
drivers/media/video/saa7134/Kconfig | 50 -
drivers/media/video/saa7134/Makefile | 3
drivers/media/video/saa7134/saa7134-alsa.c | 8
drivers/media/video/saa7134/saa7134-cards.c | 127 ++
drivers/media/video/saa7134/saa7134-core.c | 2
drivers/media/video/saa7134/saa7134-dvb.c | 197 +-
drivers/media/video/saa7134/saa7134-input.c | 6
drivers/media/video/saa7134/saa7134-tvaudio.c | 1
drivers/media/video/saa7134/saa7134.h | 3
drivers/media/video/tda9887.c | 2
drivers/media/video/tuner-simple.c | 6
drivers/media/video/tuner-types.c | 1
drivers/media/video/tvaudio.c | 42 -
drivers/media/video/tveeprom.c | 2
drivers/media/video/tpv5150.c | 7
drivers/media/video/usbvideo/konicawc.c | 9
drivers/media/video/usbvideo/vicam.c | 4
drivers/media/video/v4l1-compat.c | 12
drivers/media/video/v4l2-common.c | 1
drivers/media/video/video-buf-dvb.c | 2
drivers/media/video/videodev.c | 32
drivers/media/video/vino.c | 1
drivers/media/video/vivi.c | 5
drivers/media/video/vpx3220.c | 2
drivers/media/video/zoran_card.c | 6
drivers/media/video/zoran_driver.c | 7
drivers/media/video/zr36120.c | 6
include/linux/videodev2.h | 5
include/media/ir-common.h | 2
include/media/tuner-types.h | 3
include/media/tuner.h | 1
include/media/v4l2-common.h | 16
include/media/v4l2-dev.h | 10
197 files changed, 9023 insertions(+), 4211 deletions(-)
create mode 100644 Documentation/video4linux/cx2341x/README.hm12
create mode 100644 Documentation/video4linux/cx2341x/README.vbi
delete mode 100644 drivers/media/dvb/frontends/dib3000-common.c
delete mode 100644 drivers/media/dvb/frontends/dib3000-common.h

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```
create mode 100644 drivers/media/dvb/frontends/dib3000mc.h
delete mode 100644 drivers/media/dvb/frontends/dib3000mc_priv.h
create mode 100644 drivers/media/dvb/frontends/dibx000_common.c
create mode 100644 drivers/media/dvb/frontends/dibx000_common.h
create mode 100644 drivers/media/dvb/frontends/mt2060.c
create mode 100644 drivers/media/dvb/frontends/mt2060.h
create mode 100644 drivers/media/dvb/frontends/mt2060_priv.h
create mode 100644 drivers/media/dvb/frontends/tda10086.c
create mode 100644 drivers/media/dvb/frontends/tda10086.h
create mode 100644 drivers/media/dvb/frontends/tda826x.c
create mode 100644 drivers/media/dvb/frontends/tda826x.h
create mode 100644 drivers/media/dvb/frontends/tua6100.c
create mode 100644 drivers/media/dvb/frontends/tua6100.h
create mode 100644 drivers/media/video/saa711x_regs.h
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