

Karmic: get the latest drivers for gspca, uvc, usbvideo and other

Posted on [3 novembre 2009](#) by [Stemp](#) | [28 commentaires](#)



Hercules Classic Link 06f8:3009

La version Française se trouve [ici](#).

I already mentioned the [gspca](#) driver and libv4l in the post [\[fr\] Intrepid, les Webcams et les drivers Gspca](#). Unfortunately the topic is still relevant, the drivers being developed much faster than their integration into the distros kernel.

It's time to update informations and expand them to all the drivers from [linuxtv.org](#) (V4L-DVB). For a list of the webcams please check the [wiki](#) (uvc, gspca, quickcam, Microdia, linux-uvc, etc ...).

The procedure does not really change.

Installing needed packages:

```
sudo aptitude install mercurial build-essential linux-headers  
libncurses5-dev
```

Retrieving sources (from [Douglas Schilling Landgraf](#) V4L/DVB backports repository):

```
hg clone http://linuxtv.org/hg/v4l-dvb/
```

Copy the configuration file:

```
cd v4l-dvb  
sudo cp /boot/config-`uname -r` v4l/.config
```

Note: currently FireDTV drivers do not compile easily (you need all the kernel sources) and are rarely used, we will disable them in the configuration.

Launch configuration:

```
sudo make menuconfig
```

Disable FireDTV support (Multimedia Support -> DVB/ATSC adapters -> set the option blank on FireDTV and FloppyDTV):

```
Terminal - stemp@espinet: /home/stemp/logiciels/hg/gspca
Bichier Éditer Affichage Terminal Aider Aide
.config - Linux Kernel vKERNELVERSION Configuration

Linux Kernel Configuration
Arrow keys navigate the menu. <Enter> selects submenus --->.
Highlighted letters are hotkeys. Pressing <Y> includes, <N> excludes,
<M> modularizes features. Press <Esc><Esc> to exit, <?> for Help, </>
for Search. Legend: [*] built-in [ ] excluded <M> module < >

[ ] Enable drivers not supported by this kernel
<M> Multimedia support --->
  Audio devices for multimedia --->
  [*] Staging drivers --->
  ...
  Load an Alternate Configuration File
  Save an Alternate Configuration File

<Select> < Exit > < Help >
```

```
Terminal - stemp@espinet: /home/stemp/logiciels/hg/gspca
Bichier Éditer Affichage Terminal Aider Aide
.config - Linux Kernel vKERNELVERSION Configuration

Multimedia support
Arrow keys navigate the menu. <Enter> selects submenus --->.
Highlighted letters are hotkeys. Pressing <Y> includes, <N> excludes,
<M> modularizes features. Press <Esc><Esc> to exit, <?> for Help, </>
for Search. Legend: [*] built-in [ ] excluded <M> module < >

<M> DVB for Linux
  *** Multimedia drivers ***
  [*] load and attach frontend and tuner driver modules as needed
  [ ] Customize analog and hybrid tuner modules to build --->
  [*] Video capture adapters --->
  [*] Radio Adapters --->
  (B) maximum number of DVB/ATSC adapters
  [*] Dynamic DVB minor allocation
  [ ] DVB/ATSC adapters --->
  [*] DAB adapters
  <M> DABUSB driver

<Select> < Exit > < Help >
```

```
Terminal - stemp@espinet: /home/stemp/logiciels/hg/gspca
Bichier Éditer Affichage Terminal Aider Aide
.config - Linux Kernel vKERNELVERSION Configuration

DVB/ATSC adapters
Arrow keys navigate the menu. <Enter> selects submenus --->.
Highlighted letters are hotkeys. Pressing <Y> includes, <N> excludes,
<M> modularizes features. Press <Esc><Esc> to exit, <?> for Help, </>
for Search. Legend: [*] built-in [ ] excluded <M> module < >

<M> BT8xx based PCI cards
  *** Supported Pluto2 Adapters ***
<M> Pluto2 cards
  *** Supported SDMC DM1105 Adapters ***
<M> SDCM DM1105 based PCI cards
  *** Supported Firewire (IEEE 1394) Adapters ***
  [ ] FireDTV and P4pppDTV
    *** Supported Earthsoft PT1 Adapters ***
  < > PT1 cards
  *** Supported DVB Frontends ***
  [ ] Customise the frontend modules to build

<Select> < Exit > < Help >
```

Exit, Exit.

Now let's take care of usb webcams (Multimedia Support -> Video Capture adapters -> V4L USB devices)

Activate new modules drivers (press M on those marked NEW), in gspca for example:

```
Terminal - stemp@espinet: /home/stemp/logiciels/hg/gspca
Bichier Éditer Affichage Terminal Aider Aide
.config - Linux Kernel vKERNELVERSION Configuration

Linux Kernel Configuration
Arrow keys navigate the menu. <Enter> selects submenus --->.
Highlighted letters are hotkeys. Pressing <Y> includes, <N> excludes,
<M> modularizes features. Press <Esc><Esc> to exit, <?> for Help, </>
for Search. Legend: [*] built-in [ ] excluded <M> module < >

[ ] Enable drivers not supported by this kernel
<M> Multimedia support --->
  Audio devices for multimedia --->
  [*] Staging drivers --->
  ...
  Load an Alternate Configuration File
  Save an Alternate Configuration File

<Select> < Exit > < Help >
```

```
Terminal - stemp@espinet: /home/stemp/logiciels/hg/gspca
Bichier Éditer Affichage Terminal Aller Aide
.config - Linux Kernel vKERNELVERSTON Configuration

Multimedia support
Arrow keys navigate the menu. <Enter> selects submenus --->,
Highlighted letters are hotkeys. Pressing <Y> includes, <N> excludes,
<M> modularizes features. Press <Esc><Esc> to exit, <?> for Help, </>
for Search. Legend: [*] built-in [ ] excluded <M> module < >

<M> DVB for Linux
*** Multimedia drivers ***
[*] load and attach frontend and tuner driver modules as needed
[ ] Customize analog and hybrid tuner modules to build --->
[*] Video capture adapters --->
[*] Radio Adapters --->
(B) maximum number of DVB/ATSC adapters (NEW)
[*] Dynamic DVB minor allocation
[*] DVB/ATSC adapters --->
[*] USB adapters
<M> USB driver

<Select> < Exit > < Help >
```

```
Terminal - stemp@espinet: /home/stemp/logiciels/hg/gspca
Bichier Éditer Affichage Terminal Aller Aide
.config - Linux Kernel vKERNELVERSTON Configuration

Video capture adapters
Arrow keys navigate the menu. <Enter> selects submenus --->,
Highlighted letters are hotkeys. Pressing <Y> includes, <N> excludes,
<M> modularizes features. Press <Esc><Esc> to exit, <?> for Help, </>
for Search. Legend: [*] built-in [ ] excluded <M> module < >

<M> SoC camera support
<M> m9a01 support
<M> m9a11 and m9a12 support
<M> m9t031 support
<M> m9t022 support
< > rj54n1cb0c support (NEW)
<M> tm9910 support
<M> platform camera support
<M> ov772x camera support
< > ov9640 camera support (NEW)
[*] V4L USB devices --->

<Select> < Exit > < Help >
```

```
Terminal - stemp@espinet: /home/stemp/logiciels/hg/gspca
Bichier Éditer Affichage Terminal Aller Aide
.config - Linux Kernel vKERNELVERSTON Configuration

V4L USB devices
Arrow keys navigate the menu. <Enter> selects submenus --->,
Highlighted letters are hotkeys. Pressing <Y> includes, <N> excludes,
<M> modularizes features. Press <Esc><Esc> to exit, <?> for Help, </>
for Search. Legend: [*] built-in [ ] excluded <M> module < >

--- V4L USB devices
<M> USB Video Class (UVC)
[*] UVC input events device support
<M> GSPCA based webcams --->
<M> Hauppauge WinTV-PVR USB2 support
[*] pvrusb2 sysfs support (EXPERIMENTAL)
[*] pvrusb2 ATSC/DVB support (EXPERIMENTAL)
[ ] pvrusb2 debug interface
<M> Hauppauge HD PVR support
<M> Impia EM28xx USB video capture support
<M> Impia EM28xx ALSA audio module

<Select> < Exit > < Help >
```

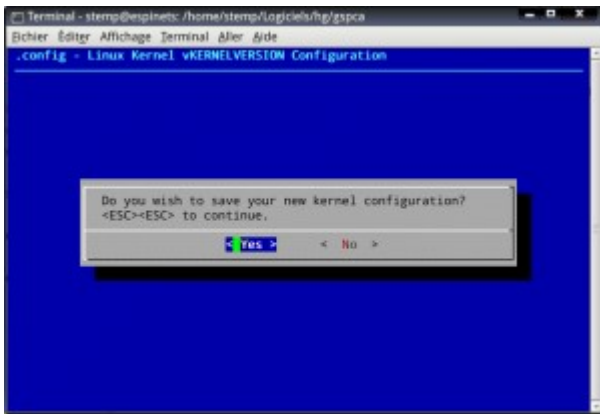
```
Terminal - stemp@espinet: /home/stemp/logiciels/hg/gspca
Bichier Éditer Affichage Terminal Aller Aide
.config - Linux Kernel vKERNELVERSTON Configuration

GSPCA based webcams
Arrow keys navigate the menu. <Enter> selects submenus --->,
Highlighted letters are hotkeys. Pressing <Y> includes, <N> excludes,
<M> modularizes features. Press <Esc><Esc> to exit, <?> for Help, </>
for Search. Legend: [*] built-in [ ] excluded <M> module < >

--- GSPCA based webcams
<M> ALI USB m5602 Camera Driver
<M> TV960X USB Camera Driver
[*] GL860 USB Camera Driver
<M> Conexant Camera Driver
<M> Itocs USB Camera Driver
<M> Fujifilm FinePix USB V4L2 driver
< > Jellin JPEG USB V4L2 driver (NEW)
<M> Murs USB Camera Driver
<M> Murs-Semi MM97310A USB Camera Driver
<M> OV51x / OV5K2 / M996xCF USB Camera Driver

<Select> < Exit > < Help >
```

Once the new drivers are enabled (M for module instead of a space), we can leave. Exit, Exit, etc... and save:



Launch the compilation:

```
make
```

```
sudo make install
```

If everything ok go to the next step, because the drivers also require the latest versions of libv4l.

For karmic it's easy:

```
sudo add-apt-repository ppa:libv4l
```

Get the latest version if necessary:

```
sudo aptitude update
```

```
sudo aptitude full-upgrade
```

Restart and enjoy your new drivers.