Subject: Re: Touch panel driver !!!
Posted by Didier on Fri, 03 Jul 2009 16:15:56 GMT
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Hi,

On linux, or any other unix system, a common way to build a project is to use the following steps:
./configure ==> it manages make configuration in order to
enable correct compilation on you're target

make ==> builds the project

make install ==> install the project binaries and other config
files if there are any

In the copy of the source code you made (step 2), you should have a file called 'configure' ==> it is the script that you must launch with ' ./configure '

NB: you will have to update ther makefile in order for it to properly
name you're binary (or you can rename it by hand afterwards)

Configuration:

On linux all the graphical stuff is usually managed by the X server. It's configuration is written in '/etc/X11/xorg.conf' file.

All the devices used be the server are also configured inside this file and the server loads all the linux modules indicated:
For each device there is a driver module (binary if you prefer), it's name is included in the 'xorg.conf' file and it is therefor automatically loaded by the X server.

Here is an example config file for a Penmount touchpad (I only put the sections where the touchpad is involved):

```
Section "ServerLayout"
 Identifier     "X.org Configured"
 Screen      0  "Screen0" 0 0
 InputDevice    "Keyboard0" "CoreKeyboard"
 InputDevice    "PenMount" "AlwaysCore"          ==> has to be the same name as the Identifier
EndSection                                      in section "InputDevice"
```

```
Section "InputDevice"
 Identifier "PenMount"
 Driver  "penmount"                    ==> The module name: - penmount_drv.so
                                                            - penmount_drv.la
 Option  "Protocol"  "PM9000"
 Option  "Device"  "/dev/ttyS3"
 Option  "PMode"   "1"
 Option  "MinX"   "10"
 Option  "MaxX"   "1000"
 Option  "MinY"   "10"
 Option  "MaxY"   "1000"
 Option  "ADBit"   "10"
 Option  "Baudrate"  "19200"
 Option  "Beep"   "0"  #  0 = no beep, 1 = beep enabled
 Option  "PressVol"  "100" #  volume of beep (press event)
 Option  "PressPitch" "880" #  pitch of beep (press event)
 Option  "PressDur"  "15" #  length of beep in 10ms (press event)
 Option  "ReleaseVol" "0"  #  volume of beep (release event)
 Option  "ReleasePitch" "1200" #  pitch of beep (release event)
 Option  "ReleaseDur" "10" #  len of beep in 10ms (release event)
 Option  "RightButton" "0" #  right button active in ms
 Option  "RightButtonStart" "500" #  right button active in ms
 Option  "RightButtonEnd" "900" #  right button inactive in ms
 Option  "PenDownMode" "1" #  0=stream mode, 1=point mode
EndSection
```

NB: all the code written for the Xorg server is GPL since it works at kernel level
So you're driver will also be GPL.

If it is for a commercial touchpad, publish it. sommebody else might be glad to find it latter.

I hope this will help you.