
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 your driver will also be GPL.

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

I hope this will help you.