

Re: Are nVidia closed source drivers still needed for 2 years old chipset?

## Re: Are nVidia closed source drivers still needed for 2 years old chipset?

---

*Source:* <http://linux.derkeiler.com/Mailing-Lists/Fedora/2007-12/msg02209.html>

---

- *From:* "Amadeus W.M." <amadeus84@xxxxxxxxxxxx>
  - *Date:* Sat, 15 Dec 2007 01:10:34 +0000 (UTC)
- 

On Thu, 13 Dec 2007 19:16:49 -0800, Dean S. Messing wrote:

Amadeus W.M. wrote:

: Dean Messing wrote:

: > Does the open source driver have (the equivalent of) TwinView these  
: > days? I need TwinView to make my laptop drive an external : >  
projector/beamer.

: >

:

: I don't think so. But I couldn't get TwinView to work with the nvidia  
: driver either. I do get to display, on my hdtv, but I can't clone the  
: laptop monitor. I get a desktop stretching over both displays, half on  
: the laptop, half on the tv.

I don't mess with GUI's much so if you are uncomforatble editing your  
xorg.conf, just disregard the following.

Following is what I cobbled together for my laptop for doing just what  
you want. (Normally one wants a clone, not an extension of one's  
desktop when one is using a projector.)

I don't pretend to be an X config expert but the following does work  
(for me). More comments after the code.

===== Begin "relevant section of laptop xorg.conf file" =====

Section "ServerLayout"

Identifier "Layout0"

Screen 0 "Screen0" 0 0

InputDevice "Keyboard0" "CoreKeyboard" InputDevice

"Synaptics"

"CorePointer"

EndSection

<snip>

Re: Are nVidia closed source drivers still needed for 2 years old chipset?

Re: Are nVidia closed source drivers still needed for 2 years old chipset?

```
Section "ServerFlags"
Option "Xinerama" "0"
Option "AIGLX" "on"
EndSection
```

<snip>

```
Section "Monitor"
Identifier "Monitor0"
VendorName "Unknown"
ModelName "Seiko" # this is the 1920x1080 laptop panel
```

manuf.

```
HorizSync 30.0 – 75.0
VertRefresh 60.0 – 60.0
Option "DPMS"
EndSection
```

```
Section "Device"
Identifier "Videocard0"
Driver "nvidia"
VendorName "NVIDIA Corporation"
BoardName "Quadro FX Go1400"
Option "RenderAccel" "true"
Option "BackingStore" "On"
Option "DPI" "100x100"
Option "AddARGBGLXVisuals" "True" Option
"DisableGLXRootClipping" "True"
EndSection
```

```
Section "Screen"
Identifier "Screen0"
Device "Videocard0"
Monitor "Monitor0"
DefaultDepth 24
Option "TwinView" "1"
Option "ConnectedMonitor" "DFP, CRT" Option
```

"metamodes" "DFP:

```
1920x1200; DFP: 1920x1200, CRT: 1024x768" Option
"TwinViewOrientation" "clone" SubSection "Display"
Depth 24
Modes "1920x1200" "1024x768"
EndSubSection
EndSection
```

```
Section "Extensions"
Option "Composite" "Enable"
```

Re: Are nVidia closed source drivers still needed for 2 years old chipset?

Re: Are nVidia closed source drivers still needed for 2 years old chipset?

EndSection

===== End "relevant section of laptop xorg.conf file" =====

Here's how this is used:

I normally just run my laptop w/o a second monitor so I have never booted with a second monitor hooked up. I say this because, based on some traffic in another thread, if you do boot with the 2nd monitor hooked up, then the "Fn-CRT/LCD" key may come into play (at least on a laptop) and with the above setup it does not.

My laptop panel is a 1920x1200 LCD. When I need to make a presentation I plug in the VGA cable from the projector and hit "Ctrl-Alt-Fn +" (that's control-alt-Fn `+') to switch modes from the first metamode (DFP alone) to the second one (DFP, CRT). "CRT" does not mean you must have a CRT hooked up (contrary to what Lonni Friedman seems to believe). It is just the device on the other end of the VGA cable.

If you're using a regular keyboard (not a laptop kbd) then there's often an explicit keypad with a + and - keys. In that case leave off the the "Fn" (i.e. "function") part of the sequence above and use the keypad + and -. The + atop the = will not work here. (See the "Modes" section of the xorg.conf man page for more on this).

With the above recipe, I see the desktop at full resolution on my laptop and the upper left 1024x768 rectangle of it on the beamer. To switch back I use "Ctrl-Alt-Fn -"

If your external device is a modern multisync CRT or another FPD that can be driven at 1920x1200, then I see no reason that the above (mutatis mudandis) should not give you a clone of your entire desktop. Or you can run your laptop at a lower-than-native resolution to match the output device. That of course will result in a degraded laptop display due to the resampling that must be done.

One more thing: my xorg.conf file came from running `livna-config-display` to get the basic entries right. I then added the TwinView stuff myself and dorked around till it worked. Of course I also studied the (excellent) Nvidia driver documentation which you shd. find by running

```
locate -i nvidia | grep -i readme
```

from the comline (assuming your "mlocate" database is up-to-date). On my system this prints:

```
/usr/share/doc/xorg-x11-driv-nvidia-100.14.19/README.Fedora  
/usr/share/doc/xorg-x11-driv-nvidia-100.14.19/README.txt
```

The first file is useful basic stuff. The 2nd file is where all the action is. Spend some time reading it and you will be an expert. :-)

Re: Are nVidia closed source drivers still needed for 2 years old chipset?

Dean

Thank you, indeed nice write-up. At a first glimpse, I noticed "TwinViewOrientation" "clone" that your xorg.conf has and mine doesn't. I do have TwinView 1.

The xorg.conf file I have I created with

nvidia-setup

It's pretty good, and I did get to display on the tv, just not clone. Thanks for the tips.

--

fedora-list mailing list

fedora-list@xxxxxxxxxx

To unsubscribe: <https://www.redhat.com/mailman/listinfo/fedora-list>