

# AMD 64 bit laptop resolution RHEL 4 u2

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  - *Date:* Sat, 21 Jan 2006 06:23:38 -0600
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You wrote:

Hello:

I would like some advice from anyone willing to help me. I am currently testing a laptop and having trouble with the video resolution. The specs:

AMD Athlon 64 Portable Workstation/Laptop

AMD Athlon 64 3000+, 3200+, and 3400+ Processor

17.0" TFT WSXGA+ LCD with up to 1680x1050 Resolution

Red Hat Linux Operating System

Internal ATA/100 Disk Drives and DVD-RW or CD-RW/DVD-ROM

8x AGP ATI Mobility Radeon 9700 3D Accelerator with 128MB DDR SGRAM Video Memory

Single Gigabit Ethernet Port and Up to Two USB 2.0 Ports

8.8 lb

When I load the OS (RHEL 4 ES update 2, AMD64 version), all goes well with the install. Then I load the (simulation) game that I am testing, and the only thing that I can get for resolution is like 800 x 600 by default. During the install it chooses 'generic lcd monitor' since as a laptop I don't have the ability to tell it that it is a certain brand (the laptop is a custom high end machine so it's not a name brand display). The resolution has to be as high as the chipset will support, considering this is high end software it needs to be able to support.

The basic problem is that there is a software 'box' that comes up, which is bigger than the screen (and without scroll bars). So by having a resolution that is too low (and therefore displayed too big) – it doesn't allow me to use the software features (fill in boxes, submit buttons, whatever) – anything that is below the bottom edge of the screen is inaccessible. The software box cannot be moved or resized.

What I am really looking for is a pre-made rpm that will go along with the abovementioned chipset. Does anyone know of an rpm that might match this machine? Any other fixes?

I have run `redhat-config-display` and chosen several choices. When I choose some of the higher resolutions it does some funky stuff like flashing and stuff but I can still see enough to get logged back in. So I go back in and I have now tested it at acceptable resolutions that are higher, like 1680x1050. I have yet to figure out (for sure) whether there is a problem with the resolution by itself or whether it needs a driver. It needs to support 1280 x 1024 either true color or millions of colors at a minimum.

I think the direction you need to go in is looking at your X config file. I have a zd7020 with a 17" display also and had to tweak the `/etc/X11/xorg.conf` file. It was a breeze for me because on the Gentoo Forums there was an entry for configuring the HP zd7000 laptop, complete with the xorg of XFree86 file already set up. The file worked for me when I was running Mandrake and now with FC4. Don't worry about the generic lcd

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monitor thing that is not the problem. You might try doing a google search for your laptop model and xorg.conf or linux or something similar and you might get lucky. I was able the back up my xorg file, copy/paste the correct file info into my xorg.conf and save.

Here is my file but do NOT use it. I an NVIDIA graphic card. It is possible that you may be able to modify this one suitably and be OK. ALWAYS backup the file you are going to work on first! A couple of months back the X people pushed a bad update out and killed X on FC4. if you messup this file just answer no to any recovery ?'s and you will get # prompt so you can overwrite your current file with your backup, then try again.

– OR –

Post your xorg.conf file to the list and ask someone for help. Here is my config. I have a –NVIDIA– driver running at 1440x900. Take a good look at the way the sections tie together before you start changing things. I am sure your answer lies in this config. But , if any of you experts out there have a better idea or if I got any of this wrong, I am listening.. Good luck.

```
# nvidia-xconfig: X configuration file generated by nvidia-xconfig
# nvidia-xconfig: version 1.0 (buildmeister@builder3) Tue Nov 22 18:04:42 PST 2005
```

```
#Section "Extensions"
#   Option "Composite"    "Enable"
#EndSection
```

```
Section "ServerLayout"
    Identifier      "X.org Configured"
    Screen 0       "Screen0" 0 0
    InputDevice    "Mouse0" "CorePointer"
    InputDevice    "Keyboard0" "CoreKeyboard"
EndSection
```

```
Section "Files"
    RgbPath        "/usr/X11R6/lib/X11/rgb"
    ModulePath     "/usr/X11R6/lib/modules"
    FontPath       "/usr/share/fonts/truetype"
    FontPath       "/usr/share/fonts/freetype"
    FontPath       "/usr/share/fonts/corefonts"
    FontPath       "/usr/share/fonts/ttf-bitstream-vera"
    FontPath       "/usr/share/fonts/local"
    FontPath       "/usr/share/fonts/misc/"
    FontPath       "/usr/share/fonts/TTF/"
    FontPath       "/usr/share/fonts/Type1/"
    FontPath       "/usr/share/fonts/CID/"
    FontPath       "/usr/share/fonts/75dpi/"
    FontPath       "/usr/share/fonts/100dpi/"
    FontPath       "/usr/share/fonts/Speedo"
    FontPath       "/usr/share/fonts/cyrillic"
EndSection
```

```
Section "Module"
    Load          "glx"
    Load          "ddc"
    Load          "record"
```

```

Load      "extmod"
Load      "dbe"
  #Load   "dri"
Load      "xtrap"
Load      "freetype"
Load      "type1"
EndSection

Section "InputDevice"
  Identifier "Keyboard0"
  Driver     "kbd"
  Option     "XkbLayout" "us"
  Option     "XkbModel" "pc104"
EndSection

Section "InputDevice"
  Identifier "Mouse0"
  Driver     "mouse"
  Option     "Protocol" "IMPS/2"
  Option     "Device"  "/dev/input/mice"
  Option     "Emulate3Buttons"
  Option     "Emulate3Timeout" "50"
  Option     "ZAxisMapping" "4 5"
EndSection

Section "Monitor"

  #HorizSync  30-92
  #VertRefresh 60
  Identifier  "LCD"
  ModeLine    "1440x900" 97.5 1440 1472 1840 1872 900 919 927 946
  Option      "dpms"
EndSection

Section "Device"
  Identifier "GeForce"
  Driver     "nvidia"
  VendorName "nVidia Corporation"
  BoardName  "GeForce FX Go5600"
EndSection

Section "Screen"
  Identifier "Screen0"
  Device     "GeForce"
  Monitor    "LCD"
  DefaultDepth 24
  Option     "NoLogo" "true"
  Option     "RenderAccel" "1"
  Option     "CursorShadow" "1"
  Option     "AGPMode" "4"
  Option     "AGPFastWrite" "true"

```

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```
Option      "EnablePageFlip" "true"  
SubSection  "Display"  
  Viewport  0 0  
  Depth     24  
  Modes     "1440x900" "1024x768" "800x600"  
EndSubSection  
EndSection
```

Stephen F. Hess

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fedora-list@xxxxxxxxxx

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