

Re: Installing ATI Radeon video drivers on Redhat Advanced Server

Source: <http://linux.derkeiler.com/Newsgroups/comp.os.linux.x/2004-01/0453.html>

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Here is the file: XF86Config

File generated by XConfigurator.

Refer to the XF86Config(4/5) man page for details about the format
of
this file.

Files section. This allows default font and rgb paths to be set

Section "Files"

The location of the RGB database. Note, this is the name of the
file minus the extension (like ".txt" or ".db"). There is normally
no need to change the default.

 RgbPath "/usr/X11R6/lib/X11/rgb"

Multiple FontPath entries are allowed (they are concatenated
together)
By default, Red Hat 6.0 and later now use a font server independent
of
the X server to render fonts.

 FontPath "unix:/7100"

EndSection

Server flags section.

Section "ServerFlags"

```
# Uncomment this to cause a core dump at the spot where a signal
is
# received. This may leave the console in an unusable state, but
may
# provide a better stack trace in the core dump to aid in
debugging
#NoTrapSignals
```

```
# Uncomment this to disable the <Ctrl><Alt><BS> server abort
sequence
# This allows clients to receive this key event.
#DontZap
```

```
# Uncomment this to disable the <Ctrl><Alt><KP_+>/<KP_-> mode
switching
# sequences. This allows clients to receive these key events.
#DontZoom
```

EndSection

```
# *****
# Input devices
# *****

# *****
# Keyboard section
# *****
```

Section "Keyboard"

Protocol "Standard"

```
# when using XQUEUE, comment out the above line, and uncomment the
# following line
#Protocol "Xqueue"
```

AutoRepeat 500 5

```
# Let the server do the NumLock processing. This should only be
# required when using pre-R6 clients
#ServerNumLock
```

```
# Specify which keyboard LEDs can be user-controlled (eg, with
xset(1))
#Xleds 1 2 3
```

```
#To set the LeftAlt to Meta, RightAlt key to ModeShift,
#RightCtl key to Compose, and ScrollLock key to ModeLock:
```

LeftAlt Meta
RightAlt Meta
ScrollLock Compose
RightCtl Control

To disable the XKEYBOARD extension, uncomment XkbDisable.

XkbDisable

To customise the XKB settings to suit your keyboard, modify the
lines below (which are the defaults). For example, for a non-U.S.
keyboard, you will probably want to use:

XkbModel "pc102"

If you have a US Microsoft Natural keyboard, you can use:

XkbModel "microsoft"

#

Then to change the language, change the Layout setting.

For example, a german layout can be obtained with:

XkbLayout "de"

or:

XkbLayout "de"

XkbVariant "nodeadkeys"

#

If you'd like to switch the positions of your capslock and

control keys, use:

XkbOptions "ctrl:swpcaps"

These are the default XKB settings for XFree86

XkbRules "xfree86"

XkbModel "pc101"

XkbLayout "us"

XkbVariant ""

XkbOptions ""

XkbKeycodes "xfree86"

XkbTypes "default"

XkbCompat "default"

XkbSymbols "us(pc101)"

XkbGeometry "pc"

XkbRules "xfree86"

XkbModel "pc101"

XkbLayout "us"

EndSection

Pointer section

Section "Pointer"

Protocol "PS/2"

Device "/dev/mouse"

ZAxisMapping 4 5

When using XQUEUE, comment out the above two lines, and uncomment
the following line.

Protocol "Xqueue"

Baudrate and SampleRate are only for some Logitech mice

BaudRate 9600

SampleRate 150

Emulate3Buttons is an option for 2-button Microsoft mice

Emulate3Timeout is the timeout in milliseconds (default is 50ms)

Emulate3Buttons

Emulate3Timeout 50

ChordMiddle is an option for some 3-button Logitech mice

ChordMiddle

EndSection

Monitor section

Any number of monitor sections may be present

Section "Monitor"

Identifier "NEC MultiSync XV15+"

VendorName "Unknown"

ModelName "Unknown"

HorizSync is in kHz unless units are specified.

HorizSync may be a comma separated list of discrete values, or a

comma separated list of ranges of values.

NOTE: THE VALUES HERE ARE EXAMPLES ONLY. REFER TO YOUR MONITOR'S

USER MANUAL FOR THE CORRECT NUMBERS.

HorizSync 31.0-65.0

VertRefresh is in Hz unless units are specified.

VertRefresh may be a comma separated list of discrete values, or a

comma separated list of ranges of values.

NOTE: THE VALUES HERE ARE EXAMPLES ONLY. REFER TO YOUR MONITOR'S

USER MANUAL FOR THE CORRECT NUMBERS.

VertRefresh 55.0-100.0

comp.os.linux.x: Re: Installing ATI Radeon video drivers on Redhat Advanced Server

```
# Modes can be specified in two formats. A compact one-line format,
or
# a multi-line format.

# These two are equivalent

# ModeLine "1024x768i" 45 1024 1048 1208 1264 768 776 784 817
Interlace

# Mode "1024x768i"
# DotClock 45
# HTimings 1024 1048 1208 1264
# VTimings 768 776 784 817
# Flags "Interlace"
# EndMode

# This is a set of standard mode timings. Modes that are out of
monitor spec
# are automatically deleted by the server (provided the HorizSync and
# VertRefresh lines are correct), so there's no immediate need to
# delete mode timings (unless particular mode timings don't work on
your
# monitor). With these modes, the best standard mode that your monitor
# and video card can support for a given resolution is automatically
# used.

# 512x384 @ 78 Hz, 31.50 kHz hsync
Modeline "512x384" 20.160 512 528 592 640 384 385 388 404
-HSync -VSync
# 512x384 @ 85 Hz, 34.38 kHz hsync
Modeline "512x384" 22 512 528 592 640 384 385 388 404
-HSync -VSync

# 640x400 @ 70 Hz, 31.5 kHz hsync
Modeline "640x400" 25.175 640 664 760 800 400 409 411 450
# 640x400 @ 85 Hz, 37.86 kHz hsync
Modeline "640x400" 31.5 640 672 736 832 400 401 404 445
-HSync +VSync

# 640x480 @ 100 Hz, 53.01 kHz hsync
Modeline "640x480" 45.8 640 672 768 864 480 488 494 530
-HSync -VSync
# 640x480 @ 60 Hz, 31.5 kHz hsync
Modeline "640x480" 25.175 640 664 760 800 480 491 493 525
# 640x480 @ 72 Hz, 36.5 kHz hsync
Modeline "640x480" 31.5 640 680 720 864 480 488 491 521
# 640x480 @ 75 Hz, 37.50 kHz hsync
ModeLine "640x480" 31.5 640 656 720 840 480 481 484 500
-HSync -VSync
# 640x480 @ 85 Hz, 43.27 kHz hsync
```

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```
Modeline "640x480" 36 640 696 752 832 480 481 484 509
-HSync -VSync
# 800x600 @ 100 Hz, 64.02 kHz hsync
Modeline "800x600" 69.65 800 864 928 1088 600 604 610 640
-HSync -VSync
# 800x600 @ 56 Hz, 35.15 kHz hsync
ModeLine "800x600" 36 800 824 896 1024 600 601 603 625
# 800x600 @ 60 Hz, 37.8 kHz hsync
Modeline "800x600" 40 800 840 968 1056 600 601 605 628
+hsync +vsync
# 800x600 @ 72 Hz, 48.0 kHz hsync
Modeline "800x600" 50 800 856 976 1040 600 637 643 666
+hsync +vsync
# 800x600 @ 85 Hz, 55.84 kHz hsync
Modeline "800x600" 60.75 800 864 928 1088 600 616 621 657
-HSync -VSync

# 1024x480 for certain Vaios
Modeline "1024x480" 65 1024 1032 1176 1344 480 491 493 525 -HSync
-VSync

# 1024x768 @ 100Hz, 80.21 kHz hsync
Modeline "1024x768" 115.5 1024 1056 1248 1440 768 771 781 802
-HSync -VSync
# 1024x768 @ 60 Hz, 48.4 kHz hsync
Modeline "1024x768" 65 1024 1032 1176 1344 768 771 777 806
-hsync -vsync
# 1024x768 @ 70 Hz, 56.5 kHz hsync
Modeline "1024x768" 75 1024 1048 1184 1328 768 771 777 806
-hsync -vsync
# 1024x768 @ 76 Hz, 62.5 kHz hsync
Modeline "1024x768" 85 1024 1032 1152 1360 768 784 787 823
# 1024x768 @ 85 Hz, 70.24 kHz hsync
Modeline "1024x768" 98.9 1024 1056 1216 1408 768 782 788 822
-HSync -VSync

# 1152x864 @ 100 Hz, 89.62 kHz hsync
Modeline "1152x864" 137.65 1152 1184 1312 1536 864 866 885 902
-HSync -VSync
# 1152x864 @ 60 Hz, 53.5 kHz hsync
Modeline "1152x864" 89.9 1152 1216 1472 1680 864 868 876 892
-HSync -VSync
# 1152x864 @ 70 Hz, 62.4 kHz hsync
Modeline "1152x864" 92 1152 1208 1368 1474 864 865 875 895
# 1152x864 @ 78 Hz, 70.8 kHz hsync
Modeline "1152x864" 110 1152 1240 1324 1552 864 864 876 908
# 1152x864 @ 84 Hz, 76.0 kHz hsync
Modeline "1152x864" 135 1152 1464 1592 1776 864 864 876 908

# 1280x960 @ 60 HzModeline "1280x960" 108 1280 1376 1488 1800 960
961 964 1000 +HSync +VSync
```

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```
# 1280x960 @ 85 HzModeline "1280x960" 148.5 1280 1344 1504 1728 960
961 964 1011 +HSync +VSync
```

```
# 1280x1024 @ 100 Hz, 107.16 kHz hsync
Modeline "1280x1024" 181.75 1280 1312 1440 1696 1024 1031 1046 1072
-HSync -VSync
```

```
# 1280x1024 @ 61 Hz, 64.2 kHz hsync
Modeline "1280x1024" 110 1280 1328 1512 1712 1024 1025 1028 1054
```

```
# 1280x1024 @ 70 Hz, 74.59 kHz hsync
Modeline "1280x1024" 126.5 1280 1312 1472 1696 1024 1032 1040 1068
-HSync -VSync
```

```
# 1280x1024 @ 74 Hz, 78.85 kHz hsync
Modeline "1280x1024" 135 1280 1312 1456 1712 1024 1027 1030 1064
```

```
# 1280x1024 @ 76 Hz, 81.13 kHz hsync
Modeline "1280x1024" 135 1280 1312 1416 1664 1024 1027 1030 1064
```

```
# 1280x1024 @ 85 Hz, 91.15 kHz hsync
Modeline "1280x1024" 157.5 1280 1344 1504 1728 1024 1025 1028 1072
+HSync +VSync
```

```
# 1400x1050 @ 60Hz, 65.8 kHz hsync
Modeline "1400x1050" 129 1400 1464 1656 1960 1050 1051 1054 1100
+HSync +VSync
```

```
# 1400x1050 @ 70Hz, 76.8 kHz hsync
Modeline "1400x1050" 151 1400 1464 1656 1960 1050 1051 1054 1100
+HSync +VSync
```

```
# 1400x1050 @ 75Hz, 82.3 kHz hsync
Modeline "1400x1050" 162 1400 1464 1656 1960 1050 1051 1054 1100
+HSync +VSync
```

```
# 1400x1050 @ 85Hz, 93.2 kHz hsync
Modeline "1400x1050" 184 1400 1464 1656 1960 1050 1051 1054 1100
+HSync +VSync
```

```
# 1600x1200 @ 60Hz, 75.00 kHz hsync
Modeline "1600x1200" 162 1600 1664 1856 2160 1200 1201 1204 1250
+HSync +VSync
```

```
# 1600x1200 @ 70 Hz, 87.50 kHz hsync
Modeline "1600x1200" 189 1600 1664 1856 2160 1200 1201 1204 1250
-HSync -VSync
```

```
# 1600x1200 @ 75 Hz, 93.75 kHz hsync
Modeline "1600x1200" 202.5 1600 1664 1856 2160 1200 1201 1204 1250
+HSync +VSync
```

```
# 1600x1200 @ 85 Hz, 105.77 kHz hsync
Modeline "1600x1200" 220 1600 1616 1808 2080 1200 1204 1207 1244
+HSync +VSync
```

```
# 1800x1440 @ 64Hz, 96.15 kHz hsync
ModeLine "1800X1440" 230 1800 1896 2088 2392 1440 1441 1444 1490
+HSync +VSync
```

```
# 1800x1440 @ 70Hz, 104.52 kHz hsync
ModeLine "1800X1440" 250 1800 1896 2088 2392 1440 1441 1444 1490
+HSync +VSync
```

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```
# Low-res Doublescan modes
# If your chipset does not support doublescan, you get a 'squashed'
# resolution like 320x400.
```

```
# 320x200 @ 70 Hz, 31.5 kHz hsync, 8:5 aspect ratio
Modeline "320x200" 12.588 320 336 384 400 200 204 205 225
```

```
Doublescan
```

```
# 320x240 @ 60 Hz, 31.5 kHz hsync, 4:3 aspect ratio
Modeline "320x240" 12.588 320 336 384 400 240 245 246 262
```

```
Doublescan
```

```
# 320x240 @ 72 Hz, 36.5 kHz hsync
Modeline "320x240" 15.750 320 336 384 400 240 244 246 262
```

```
Doublescan
```

```
# 400x300 @ 56 Hz, 35.2 kHz hsync, 4:3 aspect ratio
ModeLine "400x300" 18 400 416 448 512 300 301 302 312
```

```
Doublescan
```

```
# 400x300 @ 60 Hz, 37.8 kHz hsync
Modeline "400x300" 20 400 416 480 528 300 301 303 314
```

```
Doublescan
```

```
# 400x300 @ 72 Hz, 48.0 kHz hsync
Modeline "400x300" 25 400 424 488 520 300 319 322 333
```

```
Doublescan
```

```
# 480x300 @ 56 Hz, 35.2 kHz hsync, 8:5 aspect ratio
ModeLine "480x300" 21.656 480 496 536 616 300 301 302 312
```

```
Doublescan
```

```
# 480x300 @ 60 Hz, 37.8 kHz hsync
Modeline "480x300" 23.890 480 496 576 632 300 301 303 314
```

```
Doublescan
```

```
# 480x300 @ 63 Hz, 39.6 kHz hsync
Modeline "480x300" 25 480 496 576 632 300 301 303 314
```

```
Doublescan
```

```
# 480x300 @ 72 Hz, 48.0 kHz hsync
Modeline "480x300" 29.952 480 504 584 624 300 319 322 333
```

```
Doublescan
```

```
EndSection
```

```
# *****
```

```
# Graphics device section
```

```
# *****
```

```
# Any number of graphics device sections may be present
```

```
Section "Device"
```

```
Identifier "Generic VGA"
```

```
VendorName "Unknown"
```

```
BoardName "Unknown"
```

```
Chipset "generic"
```

```
# VideoRam 256
```

Clocks 25.2 28.3

EndSection

Device configured by Xconfigurator:

Section "Device"

Identifier "My Video Card"
VendorName "Unknown"
BoardName "Unknown"
#VideoRam 65536
Insert Clocks lines here if appropriate

EndSection

Screen sections

The Colour SVGA server

Section "Screen"

Driver "svga"
Use Device "Generic VGA" for Standard VGA 320x200x256
#Device "Generic VGA"
Device "My Video Card"
Monitor "NEC MultiSync XV15+"
DefaultColorDepth 16
Subsection "Display"
Depth 16
Modes "1024x768" "800x600"
ViewPort 0 0
EndSubsection
Subsection "Display"
Depth 24
Modes "1024x768" "800x600"
ViewPort 0 0
EndSubsection
Subsection "Display"
Depth 32
Modes "1024x768" "800x600"
ViewPort 0 0
EndSubsection

EndSection

The 16-color VGA server

Section "Screen"

Driver "vga16"
Device "Generic VGA"
Monitor "NEC MultiSync XV15+"
Subsection "Display"

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```
Modes "640x480" "800x600"  
ViewPort 0 0  
EndSubsection  
EndSection
```

The Mono server

```
Section "Screen"  
Driver "vga2"  
Device "Generic VGA"  
Monitor "NEC MultiSync XV15+"  
Subsection "Display"  
Modes "640x480" "800x600"  
ViewPort 0 0  
EndSubsection  
EndSection
```

The accelerated servers (S3, Mach32, Mach8, 8514, P9000, AGX, W32,
Mach64

I128, and S3V)

```
Section "Screen"  
Driver "accel"  
Device "My Video Card"  
Monitor "NEC MultiSync XV15+"  
DefaultColorDepth 16  
Subsection "Display"  
Depth 16  
Modes "1024x768" "800x600"  
ViewPort 0 0  
EndSubsection  
Subsection "Display"  
Depth 24  
Modes "1024x768" "800x600"  
ViewPort 0 0  
EndSubsection  
Subsection "Display"  
Depth 32  
Modes "1024x768" "800x600"  
ViewPort 0 0  
EndSubsection  
EndSection
```