

## Re: xorg resolution on new laptop

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/questions/2007-04/msg00143.html>

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- *From:* "Michael W. Lucas" <[mwlucas@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:mwlucas@xxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Tue, 3 Apr 2007 09:28:21 -0400
- 

On Tue, Apr 03, 2007 at 09:29:12AM +0100, Vince wrote:

I have this working, however i cant remember my method for working it out.

Thanks for the answer, but this doesn't work for me. Comments below.

I use  
/usr/local/bin/915resolution 4d 1440 900 16  
(in an rc script /usr/local/etc/rc.d/915res )

You just overwrote a different mode than I did, no biggie. I copied yours.

```
my xorg.conf (relevant bits)
Section "Device"

    Identifier "Card0"
    Driver "i810"
    VendorName "Intel Corporation"
    BoardName "Mobile Integrated Graphics Controller"
    BusID "PCI:0:2:0"
    Option "DRI" "true"
```

Interesting point: I copied this entry, and Xorg.0.log shows that DRI should be enabled:

```
(II) I810(0): [DRI] installation complete
(II) I810(0): direct rendering: Enabled
```

glxinfo says I don't have DRI, however:

```
glxinfo
name of display: :0.0
Unrecognized deviceID 27a2
```

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display: :0 screen: 0  
direct rendering: No

Still searching, but thanks for info. At least I know it *\*can\** work on FreeBSD...

EndSection

```
Section "Screen"
Identifier "Screen0"
Device "Card0"
Monitor "Monitor0"
DefaultDepth 24
Subsection "Display"
Depth 24
Modes "1440x900" "1024x768" "800x600"
ViewPort 0 0
EndSubsection
EndSection
```

I'm not certain why this works since I'm setting the mode to 1440x900 in 16bits but it does.

(from xdpinfo)

screen #0:

print screen: no

dimensions: 1440x900 pixels (302x191 millimeters)

resolution: 121x120 dots per inch

depths (7): 24, 1, 4, 8, 15, 16, 32

root window id: 0x5d

depth of root window: 24 planes

number of colormaps: minimum 1, maximum 1

Vince

Michael W. Lucas wrote:

Hi folks,

I've scoured Google seeking wisdom, and found nothing except hordes of Linux users whining about this same problem. FreeBSD users don't seem to have this issue, except for me. Finally I have no choice but to throw myself on your tender mercies.

I've been going nuts trying to get 1440x900 resolution on my new Toshiba P105. Any help anyone could offer would be greatly

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appreciated. Xorg assures me that the 945GM video card is supported by the i810 driver, provided I use the 915resolution program to set the resolution before starting X. I run:

```
/usr/local/bin/915resolution 3c 1440 900
```

to add the resolution 1440x900 to the video BIOS. 915resolution -l now shows me:

```
...
Mode 3c : 1440x900, 8 bits/pixel
...
Mode 4d : 1440x900, 16 bits/pixel
...
Mode 5c : 1440x900, 32 bits/pixel
..
```

So, in theory 1440x900 should be available to the card.

startx fails without a config file, so I let it create one and tweaked in based on gossip, rumour, and innuendo I've uncovered in three days of Web searching. I get something that looks \*about\* like 1200x768, but it's a far cry from 1440x900.

pciconf -lv tells me:

```
...
vgapci0@pci0:2:0: class=0x030000 card=0xff311179 chip=0x27a28086
rev=0x03 hdr=0x00
vendor = 'Intel Corporation'
device = 'Mobile Integrated Graphics Controller'
class = display
subclass = VGA
vgapci1@pci0:2:1: class=0x038000 card=0xff311179 chip=0x27a68086
rev=0x03 hdr=0x00
vendor = 'Intel Corporation'
device = 'Mobile Integrated Graphics Controller'
class = display
...
```

Here's relevant stuff trimmed from my xorg.conf.

--

```
Section "Module"
Load "extmod"
Load "glx"
Load "dri"
Load "dbe"
Load "record"
Load "xtrap"
```

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```
Load "type1"  
Load "freetype"  
Load "i2c"  
Load "bitmap"  
Load "int10"  
EndSection
```

...

```
Section "Monitor"  
#DisplaySize 370 230 # mm  
Identifier "Monitor0"  
VendorName "LPL"  
ModelName "0"  
EndSection
```

```
Section "Device"  
### Available Driver options are:--  
### Values: <i>: integer, <f>: float, <bool>: "True"/"False",  
### <string>: "String", <freq>: "<f> Hz/kHz/MHz"  
### [arg]: arg optional  
#Option "NoAccel" # [<bool>]  
#Option "SWcursor" # [<bool>]  
#Option "ColorKey" # <i>  
#Option "CacheLines" # <i>  
#Option "Dac6Bit" # [<bool>]  
#Option "DRI" # [<bool>]  
#Option "NoDDC" # [<bool>]  
#Option "ShowCache" # [<bool>]  
#Option "XvMCSurfaces" # <i>  
#Option "PageFlip" # [<bool>]  
Identifier "Card0"  
Driver "i810"  
VendorName "Intel Corporation"  
BoardName "Mobile Integrated Graphics Controller"  
BusID "PCI:0:2:0"  
EndSection
```

```
Section "Screen"  
Identifier "Screen0"  
Device "Card0"  
Monitor "Monitor0"  
DefaultDepth 24  
SubSection "Display"  
Viewport 0 0  
Depth 1  
Modes "1440x900"  
EndSubSection  
SubSection "Display"  
Viewport 0 0  
Depth 4
```

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```
EndSubSection
SubSection "Display"
Viewport 0 0
Depth 8
Modes "1440x900"
EndSubSection
SubSection "Display"
Viewport 0 0
Depth 15
Modes "1440x900"
EndSubSection
SubSection "Display"
Viewport 0 0
Depth 16
Modes "1440x900"
EndSubSection
SubSection "Display"
Viewport 0 0
Depth 24
Modes "1440x900"
EndSubSection
EndSection
```

Any ideas, anyone?

Thanks,  
==ml

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Michael W. Lucas [mwlucas@xxxxxxxxxxx](mailto:mwlucas@xxxxxxxxxxx), [mwlucas@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:mwlucas@xxxxxxxxxxxxxxxxxxxxxxxx)  
<http://www.BlackHelicopters.org/~mwlucas/>

Latest book: PGP & GPG -- <http://www.pgpdgpg.com>

"The cloak of anonymity protects me from the nuisance of caring." –Non Sequitur

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