
Subject: Re: 16-bit color

Posted by [Rick Towler](#) on Mon, 12 Nov 2001 19:36:33 GMT

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Unless you are using IDL 5.5 16 bit displays are not supported. AFAIK, only 8 and 24 bit displays are supported on IDL 5.4 and below. My guess is that your previous workstation sported a 24 bpp display? Does your display adapter support 24 bpp? Maybe you can add a few lines to your XFree config file to include a 24bpp mode.

5.5 has improved support for "other" bit depths like 16 and 32.

-Rick

"James Kuyper" <kuyper@gscmail.gsfc.nasa.gov> wrote in message news:3BF00F3F.831BD164@gscmail.gsfc.nasa.gov...

> I would like to display RGB images, with, for instance higher values for
> the Red component causing redder colors, and higher values of the blue
> component making them bluer. I used to be able to do that pretty easily,
> using the
>
> tv,image,/true
>
> However, since I've been moved to a Linux workstation, it doesn't work.
> I could provide detailed symptoms if you want, but it's obviously a
> configuration problem, so maybe the easiest way is to ask how I need to
> configure my IDL session to display these things properly. Attached is a
> copy of the xdpinfo output for my system. What device commands should I
> use?
>
> --
> James Kuyper
> MODIS Level 1 Lead
> Science Data Support Team
> (301) 352-2150

> name of display: :0.0
> version number: 11.0
> vendor string: The XFree86 Project, Inc
> vendor release number: 3360
> maximum request size: 4194300 bytes
> motion buffer size: 256

```

> bitmap unit, bit order, padding: 32, LSBFirst, 32
> image byte order:  LSBFirst
> number of supported pixmap formats: 2
> supported pixmap formats:
>   depth 1, bits_per_pixel 1, scanline_pad 32
>   depth 16, bits_per_pixel 16, scanline_pad 32
> keycode range:  minimum 8, maximum 134
> focus: window 0x340000e, revert to PointerRoot
> number of extensions: 19
>   BIG-REQUESTS
>   DOUBLE-BUFFER
>   DPMS
>   LBX
>   MIT-SCREEN-SAVER
>   MIT-SHM
>   MIT-SUNDRY-NONSTANDARD
>   RECORD
>   SECURITY
>   SHAPE
>   SYNC
>   XC-APPGROUP
>   XC-MISC
>   XFree86-DGA
>   XFree86-Misc
>   XFree86-VidModeExtension
>   XInputExtension
>   XKEYBOARD
>   XTEST
> default screen number: 0
> number of screens: 1
>
> screen #0:
>   dimensions: 1152x864 pixels (390x293 millimeters)
>   resolution: 75x75 dots per inch
>   depths (1): 16
>   root window id: 0x26
>   depth of root window: 16 planes
>   number of colormaps:  minimum 1, maximum 1
>   default colormap: 0x23
>   default number of colormap cells: 64
>   preallocated pixels:  black 0, white 65535
>   options:  backing-store YES, save-unders YES
>   largest cursor: 64x64
>   current input event mask: 0xf8603f
>   KeyPressMask      KeyReleaseMask      ButtonPressMask
>   ButtonReleaseMask EnterWindowMask      LeaveWindowMask
>   ButtonMotionMask  KeymapStateMask
SubstructureNotifyMask

```

> SubstructureRedirectMask FocusChangeMask PropertyChangeMask
> ColormapChangeMask
> number of visuals: 1
> default visual id: 0x22
> visual:
> visual id: 0x22
> class: TrueColor
> depth: 16 planes
> available colormap entries: 64 per subfield
> red, green, blue masks: 0xf800, 0x7e0, 0x1f
> significant bits in color specification: 6 bits
>
