Subject: Re: on the background color of cgplot
Posted by simona bellavista on Mon, 27 May 2013 14:30:08 GMT

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>
> This sounds to me like the cluster machine is using 16-bit color, rather
>
> than 24-bit color. Could you log onto the cluster and run IDL without
>
> running your initializing script? From inside of IDL, I'd like to know
>
> the results of this command:
>
>
>
>   IDL> Help, /Device
>

Available Graphics Devices: CGM HP LJ NULL PCL PRINTER PS REGIS TEK X Z
Current graphics device: X
    Server: X11.0, The X.Org Foundation, Release 70101000
    Display Depth, Size: 16 bits, (1024,768)
    Visual Class: TrueColor (4)
    Bits Per RGB: 8 (5/6/5)
    Physical Color Map Entries (Emulated / Actual): 256 / 64
    Colormap: Private, 65536 colors. Translation table: Enabled
    Graphics pixels: Decomposed,   Dither Method: Ordered
    Write Mask: 65535 (decimal) ffff (hex)
    Graphics Function: 3 (copy)
    Current Font: <default>,   Current TrueType Font: <default>
    Default Backing Store: Req from Server.

In fact now that you ask, I notice that idl issues the following warning:

% Unsupported X Windows visual (class: TrueColor, depth: 24).
  Substituting default (class: TrueColor, Depth: 16).

> I suspect you are unsuccessful in putting IDL into 24-bit mode on this
>
> cluster machine. Maybe because an IDL graphics window has already been
>
> opened by the time your initializing script is run. On UNIX, once a
>
> window is opened, you cannot change the depth of the visual class that
>
> is selected.

Actually the offending line in my script are:

!p.background=white
!p.color   =black

(that I forgot in my previous post, sorry, my fault!!)

The peculiar think is that if I remove these lines, everything is OK and both plot and cgplot give white on black graphics.
If I insert the above lines I get this problem with cgplot. But if I write

cgplot, dindgen(10), background=white, color=black

I get black on white (but cyan axes).

>
>
> I'd also be curious what cgPlot would do if you set yourself up in
>
> decomposed color mode (Decomposed=1, which is what I recommend you do if
>
> you want to use Coyote Graphics routines).
>

I get cyan on red with cgplot and black on red with plot