Subject: Re: can't change colortable in current window (linux bpp24) Posted by J.D. Smith on Fri, 16 Jul 1999 07:00:00 GMT

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Liam Gumley wrote: >
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- > "J.D. Smith" wrote:
- >> Sadly, the most popular X servers for Linux (XFree86) do not support
- >> overlays... I.E. they can't do PseudoColor when running in TrueColor
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- > That's interesting. I based my comments on my experience with SGI, which
- > allows PseudoColor or TrueColor modes to be used when you have 24-bit
- > hardware. I guess that to use IDL PseudoColor mode, you'd need to
- > restart your X server in 8-bit mode. Could you remind us of the syntax?
- > In addition, are there any other Linux X servers which do provide this
- > capability?

>

startx -- -bpp 32

or, if you're using xdm, you'll need to edit your "Xservers" file to contain -bpp 32.

I believe Xi graphics makes a product called AccelX which purports to do overlays. I've never seen that for myself, but they claim it's true (http://www.xigraphics.com/). Let me know if you find anything out.

JD

J.D. Smith Cornell University [

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Ithaca, NY 14853 |*|

Subject: Re: can't change colortable in current window (linux bpp24) Posted by David R. Klassen on Fri, 16 Jul 1999 07:00:00 GMT View Forum Message <> Reply to Message

To control which mode your X server begins in under Linux: startx -- -bpp #

Where # is the number of bits per pixel you wish. All of this is assuming you have defined the particular color-depth in your XF86Config file.

Liam Gumley wrote:

>

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>

- > Cheers,
- > Liam.

>

> --

- > Liam E. Gumley
- > Space Science and Engineering Center, UW-Madison
- > http://cimss.ssec.wisc.edu/~gumley

--

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Cheers, Liam.

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Liam E. Gumley
Space Science and Engineering Center, UW-Madison
http://cimss.ssec.wisc.edu/~gumley

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Liam Gumley wrote:
> Olivier ARCHER wrote:
>> when i load a color table with loadct *after* opening a window, nothing
>> happen. here a piece of code producing the error:
>>
>> device,decompose=0
>> window,/free && tv,dist(400) ;; picture in B/W
>> loadct,4
                         ;; this have no effect in the current
>> window ( no error messages )
>> window,/free && tv,dist(400) ;; picture in color; loadct effect...
>>
>> this fail on a linux rh6, with dpyinfo saying that my X serveur is
>> TrueColor, with 24 plane depth
>> this work on solaris( creator 3D graphics card), with dpvinfo saying
>> that my X serveur support various combination of class/depth.
>
> Olivier,
>
> The behavior you describe is actually a *feature* of 24-bit TrueColor
> mode in IDL. You can certainly do a lot of neat stuff in 24-bit mode, as
> described David's excellent articles. A quick way around this problem in
> 24-bit mode is to always load the color table just before displaying the
> image, e.g.
>
> loadct, 4
> tvscl, dist(256)
>
> However if you really *want* all of your graphics displays to update
> automatically any time you change the color table (using LOADCT,
> XLOADCT, or TVLCT), *and* you don't mind the limitations of 8-bit
> PseudoColor mode in IDL, then type the following commands just after
```

> starting a new IDL session:

> device, pseudo=8, decomposed=0, retain=2 ; select PseudoColor mode
> window, /free, /pixmap ; lock this mode by opening a window
> wdelete, !d.window
>

Sadly, the most popular X servers for Linux (XFree86) do not support overlays... I.E. they can't do PseudoColor when running in TrueColor mode. Version 4.0 will add this feature, but it is far from ready.

JD

J.D. Smith |*| WORK: (607) 255-5842 Cornell University Dept. of Astronomy |*| (607) 255-6263 304 Space Sciences Bldg. |*| FAX: (607) 255-5875 Ithaca, NY 14853 |*|

Subject: Re: can't change colortable in current window (linux bpp24) Posted by Liam Gumley on Fri, 16 Jul 1999 07:00:00 GMT View Forum Message <> Reply to Message

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Olivier,

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However if you really *want* all of your graphics displays to update automatically any time you change the color table (using LOADCT, XLOADCT, or TVLCT), *and* you don't mind the limitations of 8-bit PseudoColor mode in IDL, then type the following commands just after starting a new IDL session:

device, pseudo=8, decomposed=0, retain=2 ; select PseudoColor mode window, /free, /pixmap ; lock this mode by opening a window wdelete, !d.window

PseudoColor mode will then be locked in for the rest of the IDL session (you can't change modes once you've created a graphics window). To check that you actually got PseudoColor mode:

device, get_visual_name=mode print, mode

If you want to change back to TrueColor mode in future IDL sessions, replace 'pseudo=8' with 'true=24'. These commands are best placed in an IDL startup file. Type

? startup

in IDL to find out how to use a startup file.

Cheers, Liam.

--

Liam E. Gumley
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http://cimss.ssec.wisc.edu/~gumley

Subject: Re: can't change colortable in current window (linux bpp24) Posted by davidf on Fri, 16 Jul 1999 07:00:00 GMT View Forum Message <> Reply to Message

Olivier ARCHER (oarcher@ifremer.fr) writes:

- > when i load a color table with loadct *after* opening a window, nothing
- > happen.

Oh, good, a problem I *can* solve today! :-)

Sorry, Olivier, it just ain't gonna happen the way you want it to in 24-bit color. Here is a couple of articles

that point out some of your alternatives:

http://www.dfanning.com/tips/identical_graphics.html

http://www.dfanning.com/tips/colors24.html

http://www.dfanning.com/tips/using_xcolors.html

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting

Phone: 970-221-0438 E-Mail: davidf@dfanning.com

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Toll-Free IDL Book Orders: 1-888-461-0155