Subject: Re: Help with moving from 8 to 24 bit colour Posted by jevadev on Wed, 22 Sep 1999 07:00:00 GMT

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In article <MPG.1251e8384ce5356c989904@news.frii.com>. David Fanning <davidf@dfanning.com> wrote:

> Surendar Jeyadev (jeyadev@wrc.xerox.com) writes:

>

- >> Was the GETCOLOR suggestion in answer to the second question that I
- >> asked (i.e. how do I get to see that palette?)? From what I see, that
- >> is not what I want. I want to be able to see the 255 colours in the
- >> table that I am using. When I issue the color pallete command, I get
- >> a very thin window which is blank.

- > I don't know the Color_Palette program at all, but from your
- > description I am almost positive the author uses a TV
- > command in there. Your problem could be fixed, probably,
- > by adding a TRUE=1 (or whatever) keyword to that TV command.

color_palette is a standard PV Wave procedure that opens a window and presents a palette of the colours of the current colour table in a chequerboard format. In the 8 bit world, you get about 234 colours, and examples are given in the (online) manual. I am looking up the latest Wave Reference Manuals on the website to see if I can get it to display the colours in the 24 bit mode as well. What I do know, from my application, is that the colour tables do exist and I can load the different tables and the display updates just as it did in the 8 bit world on my (ex)Sparc20. The fundamental problem seems to be with the fact that the color palette procedure also uses the !d.n colors variable:

yboxes=fix(!d.n_colors/(8*int))

for the number of colours to be displayed (int = 2 if !d.n_colors > 128, 1 otherwise). I guess that this throws off the procedure and that !d.table size would be a better choice. After some messing around, I found that the solution is as follows:

device, pseudo_color=8

I am not sure what this does (that is part of today's education!), but when followed by the 'color_palette' command, I get the colors available *and* the palette is updated when I issue a 'loadct' command to load a new colour table.

- > Another alternative is to download the ancient CINDEX
- > program from my IDL 4 archive file. This program is so
- > old I believe it will still run in PV-Wave. :-)

>

> ftp://ftp.dfanning.com/pub/dfanning/idl examples/archive4/ci ndex.pro

- > If this program shows all red colors when you have a
- > color table loaded, then you are going to have to figure
- > out some way to turn color decomposition off. Are you
- > *sure* Device, Decomposed=0 didn't work for you. That

Now, I do not what 'decomposition' is -- this the second education project for the day. I have never been interested in colour as the output in hard copy format usually gets copied (note the employer!) and things loose all meaning. However, I do have a number of applications to display 3d data, and as long as they work, I am happy. I should add that they are not terribly sophisticated and I can live with 8 bit colour!

> is a *very* old keyword, I think. If you are sure,

> could you show us the result of a "Help, /Device".

No, it did not work. And here is the transcript:

WAVE> device, Decomposed=0

% Keyword DECOMPOSED not allowed in call to: DEVICE

% Execution halted at \$MAIN\$ (DEVICE).

WAVE> info, /dev

Available graphics_devices: CGM HP NULL PCL PS REGIS TEK X Z

Current graphics device: X

Server: X11.0, Sun Microsystems, Inc., Release 3600

Display Depth, Size: 24 bits, (1280,1024)

Visual Class: DirectColor (5)

Bits Per RGB: 8

Physical Color Map Entries (Used / Total): 256 / 256

Colormap: Private, 16777216 colors. Translation table: Enabled

Dither Method: Ordered

Write Mask: 16777215 (decimal) ffffff (hex)

Graphics Function: 3 (copy) Current Font: <default>

Default Backing Store: Requested From Server.

WAVE> device, pseudo color=8

WAVE> info, /dev

Available graphics devices: CGM HP NULL PCL PS REGIS TEK X Z

Current graphics device: X

Server: X11.0, Sun Microsystems, Inc., Release 3600

Display Depth, Size: 8 bits, (1280,1024)

Visual Class: PseudoColor (3)

Bits Per RGB: 8

Physical Color Map Entries (Used / Total): 256 / 256 Colormap: Private, 256 colors. Translation table: Enabled

Dither Method: Ordered

Write Mask: 255 (decimal) ff (hex)

Graphics Function: 3 (copy) Current Font: <default>

Default Backing Store: Requested From Server.

WAVE>

The pseudo_color=8 setting seems to have changed the Visual Class (whatever *that* may be!). If I try the true color=24, this is what I get:

WAVE> device, true color=24

WAVE> info. /dev

Available graphics_devices: CGM HP NULL PCL PS REGIS TEK X Z

Current graphics device: X

Server: X11.0, Sun Microsystems, Inc., Release 3600

Display Depth, Size: 24 bits, (1280,1024)

Visual Class: TrueColor (4)

Bits Per RGB: 8

Physical Color Map Entries (Used / Total): 256 / 256

Colormap: Private, 16777216 colors. Translation table: Enabled

Dither Method: Ordered

Write Mask: 16777215 (decimal) ffffff (hex)

Graphics Function: 3 (copy) Current Font: <default>

Default Backing Store: Requested From Server.

WAVE>

- > P.S. I would also make sure (if you want 24-bit color) that
- > you get a TrueColor visual class. Something like this, I think:

Device, True Color=24 >

>

>

- > You will have better defined behavior in this class than in
- > a DirectColor visual class. You can determine what class you
- > have by opening a graphics window and typing "Help, /Device".

Tried it -- see above -- but it does not give me the colors in the table when I run colour palette.

In short, it appears that I will still be in the 8 bit world as far as Wave is concerned. I am not even sure what 24 bit colour will buy for me as far as Wave is concerned. I do need it for some other applications.

Thanks for all your help. Clearly, a considerable of ignorance has to be dispelled first. I will start reading the manual about colour depth.

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