
Subject: Need Help with PRINTER Problem
Posted by [davidf](#) on Mon, 21 Aug 2000 07:00:00 GMT
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Hi Folks,

I think I have identified a bug that has been driving me absolutely insane for the past 24-hours!

Now that I can faithfully reproduce the bug on my printer, I want to try to rule out a printer driver problem, rather than a problem with the PRINTER device. I would like some help testing this, if you have a minute or so.

Here is what I think is happening. If you go into the PRINTER device and load a single color at *any* color index, that color seems to be used for color index 0 in subsequent graphics commands, even though it is clear the color is not loaded in color index 0.

In the test program below, I load a yellow color at color index 210. I then display an image that is scaled into indices 0 to 199. Every pixel in the image that has a 0 value is now displayed in a yellow color!

I use DIALOG_PRINTERSETUP so I can write the output to a file for viewing in GhostView, since I've already gone through a ream of paper trying to get to the bottom of this. In GhostView the image pixels show up as yellow. On the black and white output from my printer, they show up as a very light color. You should have no problem seeing that the image is incorrect, in any case.

Could you run the test program and tell me what printer you are using and what you see. Thanks very much.

Cheers,

David

```
PRO TEST
loadct, 0, ncolors=200
thisDevice = !D.Name
```

```
filename = Filepath(Subdir=['examples', 'data'], 'worldelv.dat')
Openr, lun, filename, /Get_lun
image = bytarr(360,360)
readu, lun, image
Free_lun, lun
ok = dialog_printersetup()
Set_Plot, 'PRINTER', /Copy
TVLCT, 255, 255, 0, 210
TV, BytScl(image, Top=199), xsize=5, ysize=5, /inches
Device, /Close
Set_Plot, thisDevice
END
```

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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

Subject: Re: Need Help with PRINTER Problem
Posted by [davidf](#) on Wed, 23 Aug 2000 07:00:00 GMT
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David Fanning (davidf@dfanning.com) writes:

> I think I have identified a bug that has been driving
> me absolutely insane for the past 24-hours!

Indeed, RSI confirms this behavior, in which a single color is loaded into the color table in the PRINTER device at *any* location and then becomes the background color, is a bug.

The color, however, is only "officially" loaded into the correct position in the color table, so one work-around is to simply get and reload the color table vectors. My code looks something like this:

```
yellow = GetColor("yellow", !D.Table_Size-3) ; Load single color
TVLCT, r, g, b, /Get ; These two lines are work-around.
TVLCT, r, g, b
TV, scaledImage
```

Cheers,

David

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David Fanning, Ph.D.

Fanning Software Consulting

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