
Subject: Re: Plotting results from z-buffer are different than xwindow.

Posted by [David Fanning](#) on Wed, 16 Jul 2014 12:25:05 GMT

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jlpippitt@comcast.net writes:

```
> Here is the code for the two plotting procedures. The resulting plots are different.
>
> xwindow plotting procedure:
> radar=rsl_anyformat_to_radar('/gvs2/gpmgv_data/gpmgv/KARX/1C
UF/2014/0708/KARX_2014_0708_193306.uf.gz')
> rsl_plotsweep_from_radar,radar,/bgw,window=600,f='CZ',/new,m
axrange=200,SWEEP_INDEX=0
>
> zbuff plotting procedure:
> radar=rsl_anyformat_to_radar('/gvs2/gpmgv_data/gpmgv/KARX/1C
UF/2014/0708/KARX_2014_0708_193306.uf.gz')
> thisDevice = !D.Name
> Set_Plot, 'Z', /COPY
> Device,Set_Resolution=[600,600],Set_Pixel_Depth=24,Decompose d=1,Z_Buffer=0
> Erase
> rsl_plotsweep_from_radar,radar,bgw,window=600,f='DZ',new,max
range=200,SWEEP_INDEX=0
> snapshot = TVRD()
> TVLCT, r, g, b, /Get
> Device, Z_Buffer=1
> Set_Plot, thisDevice
> image24 = BytArr(3, 600, 600)
> image24[0,*,*] = r[snapshot]
> image24[1,*,*] = g[snapshot]
> image24[2,*,*] = b[snapshot]
> write_png,'test.png',image24,r,g,b
```

Well, I don't see anything obviously wrong with the code, although I would have certainly replaced all of this:

```
> snapshot = TVRD()
> TVLCT, r, g, b, /Get
> Device, Z_Buffer=1
> Set_Plot, thisDevice
> image24 = BytArr(3, 600, 600)
> image24[0,*,*] = r[snapshot]
> image24[1,*,*] = g[snapshot]
> image24[2,*,*] = b[snapshot]
> write_png,'test.png',image24,r,g,b
```

with this:

```
void = cgSnapshot(File='test.png', /NoDialog)
Set_Plot, thisDevice
```

Or, at the very least, with this:

```
image24 = TVRD(True=1)
write_png,'test.png',image24,r,g,b
Set_Plot, thisDevice
```

Do you find anything different if you leave the Device, Z_Buffer=1 command out of the sequence?

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
Sepore ma de ni thue. ("Perhaps thou speakest truth.")
