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

Posted by [jlpippitt](#) on Wed, 16 Jul 2014 11:34:54 GMT

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On Tuesday, July 15, 2014 3:02:36 PM UTC-4, David Fanning wrote:

>
>
>
>
>> Thank you for your response. I think z-buffer is applying some kind of smoothing to the data. Holes appear in a precipitation field in the x-window (which is the true representation of the data) while the images created with z-buffer the holes are filled in (maybe nearest pixel smoothing). I think it would be beneficial to see the images I am referring to. Is there a way to post images on here?

>
>
>
> I seriously doubt there is smoothing going on in the Z-buffer. Are you
>
> using the Z-buffer for actual buffering, or have you turned this off and
>
> are just using the Z-buffer as another graphics window? Have you set the
>
> size of the Z-buffer to match the size of your graphics window?

>
>
>
> There is no way I know of to post images, here, but I doubt looking at
>
> an image would be helpful anyway. It would probably be more helpful to
>
> look at your code.

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>
>
>
> Cheers,

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>
>
> David

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>
>
> --
>
> David Fanning, Ph.D.
>
> Fanning Software Consulting, Inc.

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

David,

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
```

Thank you,
Jason
