
Subject: Re: oplot - error in plotting to Z buffer only
Posted by [davidf](#) on Fri, 05 Feb 1999 08:00:00 GMT
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Gwyn Fireman (fireman@mcst.gsfc.nasa.gov) writes:

> I have a routine to automatically generate a bunch o'gifs.
> Usually it works fine.
> On one set of data it fails with the error:
>
> % OPLOT: No valid points, must have at least 2 distinct points
>
> But, but - I *do* have points to plot!
> If I run this interactively I can re-enter the command after it gives
> the error, and it works fine. (But .con does not)
>
> AND if I plot to an X-window instead of to the Z-buffer (as I usually
> do when generating gifs) it runs fine.

Odd. I have a theory about IDL and blue moons, but
it needs further testing before I publish it. :-)

Cheers,

David

P.S. Is this reproducible? I mean, does the same
thing happen around the 15th of the month?

--

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Subject: Re: oplot - error in plotting to Z buffer only
Posted by [J.D. Smith](#) on Sat, 06 Feb 1999 08:00:00 GMT
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Gwyn Fireman wrote:

>
> Well, I'm stumped.
>
> I have a routine to automatically generate a bunch o'gifs.
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> AND if I plot to an X-window instead of to the Z-buffer (as I usually
> do when generating gifs) it runs fine.
>
> Has anyone seen a similar discrepancy?
> Is there something I need to know about the Z buffer?
>
> Thanks.
>
> --
> ---- Gwyn F. Fireman
> ---- General Sciences Corporation
> ---- MODIS Characterization Support Team
> ---- Gwyn.Fireman@gsfc.nasa.gov 301-352-2118

Not to denigrate David's Blue Moon theory, but I'll bet a nickel that the data frame for which the routine fails is corrupt or somehow not correctly read in. I've been down the road of blaming the Z-Buffer for all my problems, only later to discover some more plausible error. Are you *certain* all you changed was set_plot,'Z' to set_plot,'X'?

JD

--

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Subject: Re: oplot - error in plotting to Z buffer only
Posted by [Dick Jackson](#) on Mon, 08 Feb 1999 08:00:00 GMT
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Gwyn Fireman wrote:

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> Has anyone seen a similar discrepancy?
> Is there something I need to know about the Z buffer?

This may be the same bug I've run into. In some cases, when plotting:

- with my own UserSym plot symbol (say a 20-point circle)
- to the Z-Buffer device
- right at the bottom or top edge of the plot where the UserSym might meet or go over the edge (sorry, I don't remember exactly)

this very error would occur. When I fixed the YRange and plotted a set of points that started off the bottom and crept onto the plot, I could tell when it failed. I found a workaround, so I didn't get to the bottom of this.

Hope this helps!

Cheers,

--

-Dick

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Subject: Re: oplot - error in plotting to Z buffer only
Posted by [wmc](#) on Mon, 08 Feb 1999 08:00:00 GMT
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Gwyn Fireman <fireman@mcst.gsfc.nasa.gov> wrote:

> On one set of data it fails with the error:
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> But, but - I *do* have points to plot!

I think I've seen this before, but can't remember the exact circumstances.
I seem to recall that the exact size of the window mattered - do you get the

same failures if the Z-buffer and interactive window are exactly the same size?

-William

--

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Climate Modeller, British Antarctic Survey | Disclaimer: I speak for myself
