Subject: Re: black window on fsc_surface & fsc_surface_log?
Posted by David Fanning on Tue, 10 Aug 2004 20:28:00 GMT
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BG writes:

> I would like to view the above surface plot using fsc_surface or
> fsc_surface_log instead of just using "surface", but all I get is a
> black screen when I try either of the following commands:
>
> fsc_surface, griddedData, xvector, yvector
> fsc_surface_log, griddedData, xvector, yvector
>
> So... in the above commands, is it correct to use the "griddedData"
> array as the 2d data array called by fsc_surface and fsc_surface_log??

Oh, probably. But FSC_SURFACE is trying to do something
clever (oh, I don't know why!) and may be having some
problems with "weird" data. Before I ruin the rest of
my day by asking for your data, try this:

```
fsc_surface, griddedData, xvector, yvector, $
  position=[0,1,0,1,0,1]
```

Does anything show up now?

> btw, The 2D array, "griddedData" has lots of negative numbers? why is
> that, since none of my data are negative??? Is there a connection
> between black screen as output of fsc_surface and negative numbers?

I hope not. But sometimes this method of gridding can
be a bit of a disappointment. Have you tried GridData
as an alternative?

Cheers,

David
--
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Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: black window on fsc_surface & fsc_surface_log?
Posted by u2s5thmember on Wed, 11 Aug 2004 19:16:34 GMT
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David, Your fsc_surface code is Great! I know it's me doing

something incorrectly. Here's what I did which was incompatible with fsc_surface which produced the black window:

I usually put the word "stop" just before the word "end" in my code, which allows me to examine or work with the variables after running my code. If I take out the word "stop", idl doesn't seem to remember any of the variables it just used, i.e. it says all my variables are now undefined.

If I remove the word "stop" from my code (I just read I could type ".con" instead), fsc_surface loads correctly and produces a plot. I'm not certain I have the correct plot yet though.

I do have a question re: GridData vs. Triangulate/TriGrid:

For some reason using Triangulate/TriGrid produces negative z axis data, when it should range from 1e-3 to 1, so I'll *have* to figure out GridData. Here's the problem with that:

TriGrid offers the [XGrid=variable], [YGrid=variable] options, so when I run the above code and then call

```
fsc_surface, griddedData, xvector, yvector
```

the DATAX array size matches the Z data size. This part is good, but if I do this instead:

```
griddedData=GridData(x, y, z, dimension=163
```

or

```
griddedData=GridData(x, y, z, dimension=163, $
/GRID, xout=x, yout=y)
```

and then:

```
fsc_surface, griddedData, x, y, position=[0,1,0,1,0,1]
```

or

```
fsc_surface, griddedData, position=[0,1,0,1,0,1]
```

I get either 1) an error message saying the x & y arrays don't match griddedData or 2) fsc_surface plots the array indices on the x- and y-axes and not my actual x & y data.

Do I need to TriGrid after calling GridData???