Subject: Interesting "Feature" Discovered! Posted by David Fanning on Tue, 28 Feb 2012 17:49:36 GMT View Forum Message <> Reply to Message

Folks.

From time to time I have seen an interesting "feature" in IDL that I am always in too much of a hurry to investigate. It has to do with putting images on maps.

I work almost exclusively now with graphics windows that have white backgrounds. I create these windows with cgDisplay, rather than the Window command. But, occasionally, when I am working with images and map projections I find that the image will go into the window and create a black background. This is so EVEN if have set the image background to "white":

IDL> cglmage, image, Background='white'

Today, I am in my usual hurry, but this annoyed me so much I decided to look into it! :-)

cgImage normally "erases" the window in the same way all IDL commands (except the TV command!) do. The only time it doesn't do that is if I am doing multiple plots, etc. The way I check to see if I am doing multiple plots is to check the first element of !P.Multi to see how many plots remain to be plotted on the page. This element normally has values from 0 to one less then the number of plots you want to draw.

When I looked into the black background problem I found that the "erasing" part of the cgImage code was being skipped. Say what!? I'm not doing multiple plots! Why should it skip?

It turns out that in certain circumstances !P.Multi[0] can be a number LESS THAN 0!!! In fact, all you have to do to make it a number less than 0 is to issue a MAP_SET command!

I've fixed cgImage this morning to be aware of this "feature" of Map_Set. :-)

http://www.idlcoyote.com/programs/cgimage.pro

Cheers,

David

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Sepore ma de ni thui. ("Perhaps thou speakest truth.")