
Subject: miracle of !order

Posted by [R.Bauer](#) on Sat, 19 Feb 2005 12:10:04 GMT

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Dear all

probably this is already known, but there is some risk to do something wrong so I like to note it here. Probably David likes to put it on his marvellous page.

I came to a problem reading and processing an image. If I have used the default !order=0 all goes right while it wasn't possible to read the text on the image so I switched to !order=1. Then a journey starts to understand why all was a bit wrong.

I try to describe the situation.

We have a circular pattern nearly in the center of a 1024x1024 image. To compare all the images the pattern must be aligned. First we detected the center of the circle and then we could do the alignment by rotating the image around this center point. This was done in a widget by displaying the image. The widget is used for selecting the center of the circle and some other things. With !order=0 all goes right.

Then I switched to !order=1 and the results were different. It takes some time to understand what goes wrong.

If you use !order=1 only the image on screen got's reordered. The function which I used to rotate (rot) the data of the image does not recognize this Sysvar set to 1 and it rotates the image not reordered.

The center point was wrong.

If you like to have reordered data on display and you like to do something else with this image data then you should reorder it yourself. !order=0 should not be changed. That's the only way to use the right data in all your routines.

cheers
Reimar

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a IDL library at Forschungszentrum Juelich
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro.html

Subject: Re: miracle of !order

Posted by [David Fanning](#) on Mon, 21 Feb 2005 01:11:04 GMT

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Reimar Bauer writes:

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> why all was a bit wrong.

I agree. As soon as you allow an ORDER keyword into any IDL program you write, you have opened up Pandora's Box. If anyone ever suggests it in your presence in conjunction with the words "draw widget" or "GUI", immediately leave the room. You want nothing more to do with that person! It will ruin your life, or -- at the very least -- give you such severe migraine headaches that you will rue the day you first heard the word "IDL" spoken. (I realize this is not the **only** cause of this condition, but this will surely do it.)

If you want to image flipped top to bottom, flip the damn thing yourself (with the ROTATE command) and forget you ever read the word "ORDER" in association with a TV command. You will thank me for a long, long time. :-)

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
