
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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Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de
<http://www.fz-juelich.de/icg/icg-i/>

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