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Subject: Re: IDL for Windows and MAC...

Posted by [Martin Downing](#) on Fri, 28 Sep 2001 07:57:37 GMT

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Hi Gonzalo,

I dont know of any fundamental reasons, most of the time a problem like this has the simplest solution, so here are some pointers to get you started: Firstly, the system variable !ORDER just controls the transfer or "painting" of an image to your screen, it does not change the coordinates of the display. The keywords in CW\_DEFROI control how the display coordinates are translated into image coordinates, (these also include an ORDER keyword). Make sure all keywords are being set correctly -e.g. if you dont set IMAGE\_SIZE then the function assumes the image and window have the same dimentions, and the window may be a different size now you have switched machines/OS.

It is of course possible that when you transferred all your software routines that now different versions of some routines are being called. The method of checking what routines are currently compiled and exactly `_where_` they live was discussed last week and is simply:

```
IDL> HELP, /SOURCE_FILES
```

I would try some simple tests, like seeing whether for example after loading the image "Print, pixel[10,10]" has the same value on both systems (for the same image!!). Maybe create test images to test the stats on (checker board (for min max average) or random normal noise (with known std dev):

```
checkbd_im = rebin(indgen(2,2),512,512) ;
```

```
noise_im = fix((randomn(s,512,512)*10)+100)
```

maybe save these as dicom on windows then import. If it is still wrong analyse the roi's values independantly by putting a break in the code.

well you get the idea, at least of what another average user would do :)  
good luck!

Martin

## !ORDER System Variable

Controls the direction of image transfers when using the TV, TVSCL, and TVRD procedures. If !ORDER is 0, images are transferred from bottom to top, i.e. the row with a 0 subscript is written on the bottom. Setting !ORDER to 1, transfers images from top to bottom.

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"Gonzalo Rojas" <rojas\_gonzalo@hotmail.com> wrote in message  
news:3BB3A216.A82F8987@hotmail.com...

> Hi:

>

> Sometime ago, I created an image processing software using IDL 5.2  
> for Windows... That simple widget software, reads a DICOM image (lung CT  
> images; 2 bytes per pixel), displays it, you could change the color  
> palette (I used xcolors.pro of David Fanning), and it computes some  
> statistics from a ROI selected in the image (I used CW\_DEFROI procedure  
> to define the ROI)... That statistics are, for example, the histogram in  
> a fixed interval, and other values computed with it... That software in  
> Windows runs very well...

>

> I tried to ran my software using IDL 5.2 for MAC (in a iMAC  
> computer), but it didn't work ok... It read and displayed the image  
> well, the ROI is created well... but all the statistics that it  
> computed, was wrong... The histogram, etc, etc. was wrong... There exist  
> a problem with little endian-big endian ?... Besides, I tested an  
> "!ORDER = 1" at the beginning of the software... Then, obviously the  
> software shows the images rotated, but for what reason if I define a ROI  
> in the same relative position that with !ORDER = 0, my software computes  
> different values ?...

>

> Please, send me the answer, urgently...

>

> Thanks in advance...

>

>

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