Subject: Re: convert\_coord problem
Posted by Ben Tupper on Thu, 27 Jul 2000 07:00:00 GMT
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Hello,

it sounds like you are using direct graphics.

The CONVERT\_COORD function makes the conversions using the scaling factors in !X .Sand !Y.S from the \_most\_recent\_ plot. So the conversion will work properly in the most recent plot, but it will produce garbage for any of the earlier ones. You could do a couple of things to get around this limitation.

(1) Save the values !X.S and !Y.S for each plot window (these are originally stored after the graphic command that sets up the coordinate system for each window.)

```
Win1_XS = !X.S & Win1_YS = !Y.S
Win2_XS = !X.S & Win2_YS = !Y.S
```

Later, when a mouse event arrives, assign the appropriate values to !X.S and !Y.S and make the neccessary conversions. So if an event arrives from window 2

```
!X.S = WidgetInfoStructure.Win1_XS
!Y.S = WidgetInfoStructure.Win2_YS
```

DataCoord = CONVERT\_COORD(Event.X, Event.Y,/Device,/To\_Data)

- (2) You could save the values of !X.S and !Y.S and write your own conversion routine using the conversion formulas described in the online help. (See Coordinate Conversion for Direct Graphics)
- (3) You might check out Liam Gumley's Frame Tools (you can find them through David Fanning's links web page.) I don't know if these tools will solve your problem, but it sounds like the might help.

Ben

Klaus Scipal wrote:

- > Hi
- >
- > I have a widget with several graphic windows. On of it returns the
- > co-ordinates of the mouse button if pressed. These co-ordinates are then
- > converted from device to data (longitude, latitude) using the convert\_coord

- > routine, and some data is plotted in the other windows. Now comes my
- > problem: the convert\_coord routine gives the correct co-ordinates only in
- > its first call. when I try to convert another pair of co-ordinates the
- > result is flawed. What can be wrong???

>

> Klaus

>

> p.s.: I use IDL 5.2 under Windows NT

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note: email address new as of 25JULY2000