
Subject: Re: !x.region,!y.region

Posted by [Craig Markwardt](#) on Tue, 25 Apr 2000 07:00:00 GMT

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"R.Bauer" <R.Bauer@fz-juelich.de> writes:

>
> this is my next question about the secrets of the plotarea
> (Direct Graphics)!
>
> How are !x.region,!y.region are calculated?
>
> It seems to me that's they are only define the plotregion if
> !P.charsize eq 1.0.
>
> If !p.charsize changes the region is not changing.
>
> How did I calculate the region which my plot is using
> from Y-Title to X-Title?

I have not had much use for !x.region and !y.region -- I can't recall when they have worked for me.

I use !x.window and !y.window instead. These change when you change the character size.

Example:

```
IDL> plot, findgen(10)
IDL> print, !x.window, !y.window
    0.0937550    0.971880
    0.0781300    0.960943
IDL> !p.charsize=2
IDL> plot, findgen(10)
IDL> print, !x.window, !y.window
    0.187505    0.943755
    0.156255    0.921880
```

However, I should make it clear that changing the character size alone does not update ![xy].window. These values are only reset when you make a PLOT command. If you do indeed need to know the plot dimensions before making output, then you can use

PLOT, XSTYLE=(xstyle OR 4), YSTYLE=(ystyle OR 4), /NODATA, ...

which doesn't make any output but does establish the new coordinate system.

Cheers,

Craig

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