
Subject: Re: plot: Messed-up coordinates when switching devices

Posted by [David Fanning](#) on Wed, 20 Sep 2006 14:38:09 GMT

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Ingo von Borstel writes:

- > Now, calling first w/o continueplot and subsequently the routine with
- > continueplot, the plots are not aligne anymore wrt to x-axis, the whole
- > dataset is shifted and stretched.
- >
- > I assume it has to do with the coordinate systems of the screen and the
- > file that get mixed up. But I didn't find a solution to fix it. :(Any
- > suggestions how to make this work or circumvent it are welcome.

Don't use DEVICE coordinates. Try NORMAL or DATA instead. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: plot: Messed-up coordinates when switching devices

Posted by [Paolo Grigis](#) on Wed, 20 Sep 2006 15:08:54 GMT

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It seems that set_plot,'PS' generates a new blank file, so even if you give the oplot command with the right positional keyword, the original plot is still going do disappear. I guess that if you are going to overplot anything in a PS file, you should not use device,/close before.

Ciao,
Paolo

Ingo von Borstel wrote:

- > Hi there,
- >
- > I have a few plotting routines that shall allow plotting to the screen
- > and, if a filename is supplied, concurrently into that file.
- > In order to allow the usage of oplot I just switched devices as follows:
- >
- > PRO plotit, x,y, filename=filename, continueplot=continueplot
- >

```
> IF NOT KEYWORD_SET(continueplot) THEN BEGIN
> PLOT, x,y
> IF KEYWORD_SET(filename) THEN BEGIN
> SET_PLOT('PS')
> DEVICE, file=filename, /ENCAPSULE, COLOR=8
> PLOT, x,y, /DEVICE
> DEVICE, /CLOSE
> SET_PLOT('X')
> ENDIF
> ENDIF ELSE BEGIN
> OPLOT, x,y
> IF KEYWORD_SET(filename) THEN BEGIN
> SET_PLOT('PS')
> DEVICE, file=filename, /ENCAPSULE, COLOR=8
> OLOT, x,y, /DEVICE
> DEVICE, /CLOSE
> SET_PLOT('X')
> ENDIF
> ENDELSE
>
> END
>
> Now, calling first w/o continueplot and subsequently the routine with
> continueplot, the plots are not aligne anymore wrt to x-axis, the whole
> dataset is shifted and stretched.
>
> I assume it has to do with the coordinate systems of the screen and the
> file that get mixed up. But I didn't find a solution to fix it. :( Any
> suggestions how to make this work or circumvent it are welcome.
>
> Best regards,
> Ingo
>
```
