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Subject: plot: Messed-up coordinates when switching devices  
Posted by [Ingo von Borstel](#) on Wed, 20 Sep 2006 14:30:14 GMT  
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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 streched.

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

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If you need an urgent reply, replace newsgroups by vgap.

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