
Subject: newbie: why doesn't !P.MULTI work here?
Posted by [demott](#) on Wed, 05 Jun 1996 07:00:00 GMT
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I would like to plot 4 images with axes overlaid per page using !P.MULTI = [0,2,2]. First I plot the axes so that the WINDOW variables are set. Then I plot the image using TV. Then I replot the axes, since the image overlaid the inward pointing tick marks.

Here's the code:

```
!p.position=[.2,.2,.761,.785]
!P.MULTI=[0,2,2]
FOR k=0,3 DO BEGIN

; make the axes first so the WINDOW variables are set
  PLOT, [0,355], [1,1], xrange=[0,355], yrange=[300,1], $
  TITLE='U200 (minus zonal and temporal mean)', $
  SUBTITLE='CSU95 control', $
  XTITLE='Longitude band (n to n+5)', $
  YTITLE='Day', $
  /XSTYLE, /YSTYLE
  print, !P.MULTI

; plot the image
  tv, a(k,*,*), !x.window(0), !y.window(0), $
  xsize=!x.window(1)-!x.window(0), $
  ysize=!y.window(1)-!y.window(0), /NORM

; Make axes again with inward pointing ticks OVERLAYING image
  PLOT, [0,355], [1,1], xrange=[0,355], yrange=[300,1], $
  /XSTYLE, /YSTYLE, /NOERASE

; end of file(0-3) loop
END
```

where a is byte array. the print statement yeilds the following output:

3	2	2	0	0
2	2	2	0	0
1	2	2	0	0
0	2	2	0	0

Unfortunately, when viewing the postscript image in GhostView, I get four plots situated one on top of the other in the center of the page.

I can successfully plot 4 frames per page interactively as follows,

but only if I issue these statements right after starting up IDL
(otherwise I get 4 overlaid plots again):

```
IDL> f = findgen(10)
IDL> !P.MULTI = [0,2,2]
IDL> plot, f
IDL> plot, f
IDL> plot, f
IDL> plot, f
```

Any help will be greatly appreciated!

Charlotte
demott@olympic.atmos.colostate.edu
