Subject: positioning oplots
Posted by jat on Tue, 04 Aug 1992 17:24:59 GMT

Does anyone know how to position 'oplots' ?

 I'm trying to analyze time-series data by plotting locations and
animating against time.

 My particular problem arises when I have more than one plot
per window (setting !p.multi to something other than 0).

 At the starting frame, I 'plot' the axes with '/nodata'. I
also save the axis endpoints from !x(y).window, in an array.

 In subsequent frames I 'oplot' the data, erase it after a delay,
and 'oplot' the next frame. I try to position the data into its
respective plot by using 'position' in the 'oplot' routine with
'position' set to the saved axes for that plot. I use 'oplot' because
it's somewhat faster than 'plot', I only need to change the data, not the
axes, and it gets rid of the flickering associated with 'plot' in a loop.

 Result: all my plots for subsequent frames end up in the last
plot. 'position' seems to have no effect.

 Some solutions I've tried:
  (1) Setting !p.position to the axes endpoints before
calling 'oplot'... Same result.
  (2) I only really generate just one column of plots,
Thus I figured that I can adjust the data to appear on a plot other
than the last one while it is still relative to the last plot. This
sort of works, but I can tell my data is off a little bit.

 If anyone has any suggestions or solutions, please e-mail to me.
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Jatinder Singh   916-653-7564
jat@water.ca.gov ...ucbvax!ucdavis!caldwr!jat
Any opinions expressed are my own; they do not represent the DWR.

Subject: Re: positioning oplots
Posted by isaacman on Tue, 04 Aug 1992 21:46:00 GMT

In article <JAT.92Aug4102459@locke.water.ca.gov>, jat@water.ca.gov (Jatinder Singh) writes...
>
> Does anyone know how to position 'oplots' ?
>

> Result: all my plots for subsequent frames end up in the last
> plot. 'position' seems to have no effect.

Try resetting the first parameter of !p.multi.

Rich Isaacman

Thank you all for responding. Most of you were correct in
suggesting that '!p.multi(0)' had to be reset to move the plots
around. However, the solution is more involved than that.

   I think I misled (myself included), by asking for a solution
to positioning 'oplot'. The actual (simplest) solution is to set
'!p.multi(0)' to the correct plot, and use 'PLOT',and set x(y)style to
at least 4 to inhibit the axes from redrawing. This way the 'PLOT'
appears as an 'oplot' because the axes don't flicker.

 Resetting '!p.multi(0)' doesn't have the desired affect on
'oplot'. Maybe in the next release 'oplot' can be expanded to allow
positioning with multiple plots.

 Thanks to
Jim P.
pendleton@ossenu.astro.nwu.edu

 for the following:

```
 ------------------------------------------------------- -------------
x=findgen(20)
y = x
xrange = [min(x), max(x)]
yrange = [min(y), max(y)]
y2 = sqrt(y)
!p.multi=[0,2,2,0,0]
for i= 0, 3 do begin
  plot,x,y,xstyle=1,ystyle=1,xrange=xrange,yrange=yrange,/noda ta
endfor
for i = 0, 3 do begin
 plot,x,y2,xstyle=5,ystyle=5,xrange=xrange,$
  yrange=yrange,/noerase
 !p.multi=[3-i,2,2,0,0]
endfor
```

```
for i = 0, 3 do begin
  plot,x,y,xstyle=5,ystyle=5,xrange=xrange,yrange=yrange,/noer ase
 !p.multi=[3-i,2,2,0,0]
endfor
end
```

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