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Subject: Re: positioning oplots

Posted by [thompson](#) on Tue, 04 Aug 1992 22:10:00 GMT

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In article <1992Aug4.202655.25345@iscnvx.lmsc.lockheed.com>, kevin@dipl.rdd.lmsc.lockheed.com writes...

> jat@water.ca.gov (Jatinder Singh) writes ...

>

>> 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.

>

> I had a similiar problem doing a similiar application. Solution: don't use

> !p.position. Before each oplot, insert a !p.multi such that it is set so

> that the next plot will be in the location you want. Example:

>

> (assuming the axis' have already been drawn):

> !p.multi=[2,1,3,0,0]

> oplot,data

>

> The fragment above will do an overplot on the middle plot of a 3 plot window

>

> Kevin Anderson

>

I tried this, and it didn't seem to work. My own suggestion is to keep copies of the !P, !X and !Y system variables for each plot, and then restore them before doing any overplots, i.e.

!P.MULTI = ... ; Start plot #1

PLOT, ...

P1 = !P & X1 = !X & Y1 = !Y  
etc.

and then

!P = P1 & !X = X1 & !Y = Y1  
OPLOT, ...

Bill Thompson

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