
Subject: Re: multi window switching
Posted by [peter](#) on Tue, 18 Mar 1997 08:00:00 GMT
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Daniel Williams (williams@skrymir.srl.caltech.edu) wrote:

: I would like to open a number of plots with the !p.multi keyword, and
: then place data points on each plot. Sounds simple, but then I would
: like to add more data to each plot as time goes by.

: The trouble is, I do not know how to tell IDL "go back to the first
: (or nth) plot, and overplot there". This is such a trivial-seeming
: task, can it be done? Each point that must be plotted cannot be
: stored, so I really need to update these plots, not make new ones.

You can do it by saving the !x, !y, !z and !p system variables after
performing each of the N plots, then setting these system variables back
to the saved values before overplotting the new points.

E.g. Try

```
IDL> !p.multi=[0,2,2]
IDL> plot, findgen(10)
IDL> x = !x
IDL> y = !y
IDL> z = !z
IDL> p = !p
IDL> plot, findgen(10)
IDL> !x = x
IDL> !y = y
IDL> !z = z
IDL> !p = p
IDL> oplot, 10-findgen(10)
```

It might seem that you could get away with saving only !p, but I think
this will only work if all the plots have the same axis ranges.

Peter
