Subject: Re: Multilayered plots
Posted by Craig Markwardt on Tue, 02 Aug 2005 18:19:26 GMT

"Hrafnkell" <hrafnkellpalsson@hotmail.com> writes:
> Hello
>
> Every six hours i have to plot around 600 pictures from meteorological
> data (actually skewt diagrams) for weather forecast on the internet so
> efficient plotting routines are very desirable. Currently each picture
> is made in two phases, first a background is plotted (axes and some
> lines in the cartesian plane) with one routine and then that background
> is overplotted with another routine. The thing is that the background
> is the same for all of the pictures and it takes some time to plot so
> it's kinda stupid to plot it 600 times.
>
> You can see the pictures here
> http://www.os.is/~or/vedurspa/serkort.html by clicking one of the
> diamonds. The latter routine overplots the two fat irregular lines
> (blue and red).
>
> How can I weasel out of plotting the background every time? A routine

You could plot the background once and then save the draw window with
IMG = TVRD().

Then for each plot that you need to do, run "TV, IMG" and the
background will be returned to the original. The coordinate system is
preserved as long as you don't issue a PLOT or AXIS command, so you
can proceed to immediately OPLOT as much as you want.

In this case PLOTIMAGE is overkill because you've already established
the coordinate grid, and you don't need to rescale the image to fit
the draw window.

Craig