## Subject: Re: multiple 2d\_plots in one system (itools) Posted by David Fanning on Wed, 10 Sep 2003 14:13:05 GMT

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## Olaf Stetzer writes:

- > I am trying to plot multiple size distributions of an
- > aerosol in one plot. What I have tried so far: the plot
- > 25 datasets, in my case there can be 100 datasets.

>

- > What I tried next is the new itools procedure iplot,
- > but it does not work as i expected it to. First, the
- > When i set xrange to [min(xdata),max(xdata)] the axis ranges from
- > ~0 to 10e16, so I tried alog10() of the above resulting in
- > a LINEAR axis from -1.4 to 1.2 even though I have set /x\_log.
- > I cannot see a way to get the axis I want.

Yes, it seems like the [XY]\_LOG keywords are broken. In any case, I can't seem to get a log axis on an iPlot by setting either of these keywords. And worse, the logarithmic selection on the axis property sheet is grayed out and unavailable for the axes. I don't know what to make of that. I guess I would check with RSI.

- > Is there another easy way to get these plots done? I wonder
- > if there is a way to get them in a 3D plot as stacked xy plots
- > with z as the time of measurement but NOT as surface plots
- > (but filled to the x-axis would be OK).
- > So far, I haven't seen a way to do this in IDL.

There is no built-in command to do this, I don't think. But it seems fairly straightforward to me to build your own. I just threw my 2D array into FSC\_SURFACE and selected parallel X lines from the Style menu and had almost what you describe. You want your plots in a different plane, and you want log axis scaling, but having a rotatable plot is nice. Probably a two hour job if you start with something like SIMPLE\_SURFACE on my web page. :-)

Cheers,

David

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