Subject: multiple 2d_plots in one system (itools)
Posted by Olaf Stetzer on Wed, 10 Sep 2003 13:29:17 GMT
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Hello,

I am trying to plot multiple size distributions of an
aerosol in one plot. What I have tried so far: the plot
structure of the Jï¿½lihc group, but it is limited to
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
x axis should be logarithmic (values from 0.038 to 16 ï¿½m).
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.

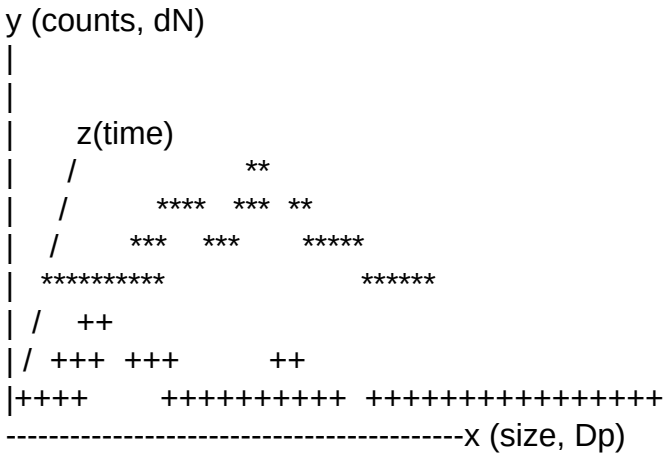
Second I don't see any data in the plot although the visualisation
manager shows all datasets (show=true). It's just my first try using
itools, but it seems they are much less intuitive than I expected.
Here is the code I used:

```
xmin=min(Dp)
xmax=max(Dp)
ymax=max(50)

for i=0,max_nr  do begin

if i eq 0 then begin
    iplot, Dp[*,i], dN[*,i]/duration[i], $
 /x_log,xrange=[xmin,xmax],yrange=[0,ymax]
    view_nr=itgetcurrent()
    endif else iplot, Dp[*,i], dN[*,i]/duration[i], $
       /x_log,xrange=[xmin,xmax],yrange=[0,ymax],overplot=view_nr
endfor
```

Omitting xrange, yrange and x_log does not change the result
(as can be expected).

Another question:

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). Like this:



Hmmm, I hope you get my idea :-)
So far, I haven't seen a way to do this in IDL.

Thanks,

Olaf
