## Subject: Problem with multi plot Posted by Gaurav on Wed, 13 Aug 2008 12:56:20 GMT

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Dear all.

I am trying to display the following data on a single plot.

```
xdata_area = [10, 20, 30, 40, 50]
xdata_vol = [112, 224, 336, 448, 560]
ydata = [20, 40, 60, 80, 100]
```

Note that the y-values for both are the same. I would like to have a graph with two x-axes, with different ranges and the plots in two different colors. Following is the code I wrote-it can be copy pasted and run. I shall point out my troubles after that:

DEVICE, DECOMPOSED=0 & !P.FONT = 0 & loadct, 39

```
!p.background=255
!p.color=0
```

WINDOW, 2, XSIZE = 900, YSIZE = 500, TITLE = 'Elevation - Area - Capacity Curve' wset, 2

!P.MULTI = [0, 1, 1, 2]

plot, xdata\_area , ydata , \$
thick = 2, \$
XRANGE = [xMin\_area,xMax\_area] , YRANGE = [yMin,yMax],\$
XTITLE='Area in Million sq metres', YTITLE = 'Elevation in Metres',\$
charsize=1.1, ystyle=1, \$
subtitle='Elevation-Area Curve',\$
XSTYLE = 8, color = 80

AXIS, XAXIS=1,XRANGE = [ceil(xMax\_vol/100.)\* 100,floor(xMin\_vol/

100.)\*100], \$
 XTITLE='Capacity in Million cubic metres', XCHARSIZE = 1.1, xstyle = 1

;The value of XRANGE has been defined that it rounds to the nearest hundred

;above and below the extreme values.

plot , xdata\_vol,ydata ,thick=2, color = 220,XSTYLE = 1, YSTYLE = 1,\$
XRANGE = [ceil(xMax\_vol/100.)\* 100,floor(xMin\_vol/100.)\*100] , YRANGE = [yMin,yMax]

end

Please note that I have deliberately put the XSTYLE and YSTYLE variables(in the second plot command) equal to 1 to point out my problem. Now, I expected the axes from the two plots to sit together and the plots to be marked properly. Instead, the axes do not sit together. I have uploaded my output here:

http://link.imgshare.us/8cjE4Y

I would appreciate your kind consideration. My queries are:

- a] Where did I go wrong as a consequence of which the axes do not coincide?
- b] What do I do to plot just the curves (NOT the axes) in color?
- c] What do I do to have the caption at the top of the graph display properly?

Regards, Gaurav