
Subject: Re: Strange TITLE output using NG PLOT.
Posted by [lecacheux.alain](#) on Wed, 01 Dec 2010 20:44:02 GMT
[View Forum Message](#) <> [Reply to Message](#)

On 1 déc, 21:10, Paul van Delst <paul.vande...@noaa.gov> wrote:

```
> Hello,
>
> I have the following NG plot code in a loop:
>
> ; Begin detector loop
> FOR i = 0, n_detectors-1 DO BEGIN
>
> ....do some stuff here....
>
> ; Plot the data detector by detector for inspection
> IF ( Plot_Data ) THEN BEGIN
>   osrf->Get_Property, Frequency=f, Response=r
>   p = PLOT( f, r, $
>       TITLE=Sensor_Id+' ch.'+STRTRIM(Sensor_Channel[!],2), $
>       XTITLE='Frequency (cm!U-1!N)', $
>       YTITLE='Relative Response', $
>       COLOR=color[i MOD N_ELEMENTS(color)], $
>       OVERPLOT=i, $
>       /CURRENT )
>   ENDIF
> ENDFOR ; Detector loop
>
> This produces a plot (slowly, but surely) that contains all the necessary data. However, it would
> appear that the main
> title is output again and again for each overplot. The x- and y-axis titles appear "normal", it's
> just the main plot
> title that looks like a very thick magic marker was used to write it.
>
> Here's a standalone example:
>
> x = findgen(100)
> y = (x/10.0)^3
>
> for i = 0, 31 do p = PLOT( x,y, $
>       TITLE='My x-y plot', $
>       XTITLE='x-axis', $
>       YTITLE='y-axis', $
>       OVERPLOT=i, $
>       /CURRENT )
>
> Watch the "My x-y plot" title get bolder/thicker with each overplot. If you zoom in, the title gets
> redrawn to the
> correct weight. But, if you hit the "undo" button, you get the original heavy weight result.
```

>
> Has anyone else experienced this strange phenomena? Is it something I'm doing wrong, or the PLOT() function?
>
> cheers,
>
> paulv
>
> p.s. BTW, any interaction with my resulting plot is agonisingly slow. I.e. it took about 20seconds to render the
> rubberband box and then redraw for a zoom in. My equivalent DG plot/overplot was almost instantaneous (to plot
> initially, and to redraw when zooming in). The speed of NG redraws for "many" plots (in my case 32 with each plot
> consisting of 10000's of points each) is embarrassing to behold. ITTVIS *has* to improve the performance of NG for it to
> be taken seriously (and to any ITTVIS folks reading this, I *really* want to take it seriously). Otherwise it's just a
> toy feature because its slowness makes it unusable for actual work. Sigh.
>
> E.g. try the above standalone example, but with
> x = findgen(50000)
> y = (x/5000.0)^3
> Maybe it's my machine or setup, but I can go get a coffee and it'll still be drawing when I get back.

OVERPLOT in NG is not like OPLOT in DG: axes and labels are (re)drawn; only scale and range from first plot are kept. To ensure speed, you should use REFRESH=1 option :

```
x = findgen(100)
y = (x/10.0)^3

p = PLOT( x,y, TITLE='My x-y plot', XTITLE='x-axis', YTITLE='y-
axis'))
for i = 0, 31 do
```
