## 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[I],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
```