Subject: Strange TITLE output using NG PLOT.
Posted by Paul Van Delst[1] on Wed, 01 Dec 2010 20:10:45 GMT
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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[l],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.