Subject: Re: Strange TITLE output using NG PLOT.
Posted by lecacheux.alain on Wed, 01 Dec 2010 20:46:16 GMT
View Forum Message <> Reply to Message

On 1 déc, 21:44, alx <lecacheux.al...@wanadoo.fr> wrote:
> 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[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.
>
> 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- Masquer le texte des messages précédents -
>
> - Afficher le texte des messages précédents -

```
x = findgen(100)
y = (x/10.0)^3
p = PLOT( x,y, TITLE='My x-y plot', XTITLE='x-axis', YTITLE='y-axis')
```

```
p.Refresh, /DISABLE
for i = 0, 31 do !Null = plot(x, y, OVERPLOT=p)
p.Refresh
```