
Subject: Plot and Legend problem

Posted by [huangsu](#) on Sat, 22 Aug 2015 10:59:55 GMT

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I encountered this problem in my project, not quite sure it is due to my mistake or my system/environment or IDL bug. I plotted charts on a widget_window, and draw a legend on it. It works fine if I don't touch the legend. However, if I move the legend window to another place, then redraw the charts will cause an error saying:

```
% Unable to invoke method on NULL object reference: <OBJREF  (<NullObject>)>.
% Execution halted at: TESTAPP_EVENT      27 /home/MyProject/TestApp.pro
```

I extract the problematic portion of the code and put it here. Running the code, click on the [plot] button or [bar plot] will active a plotting function, and execute well if I don't move the legend. After moved the legend window, then click on the buttons will lead to an error.

My configure is IDL8.4, Debian Wheezy, Dell 64bits desktop. Here is the code and hope someone can give me some advice, thanks in advance.

```
;;;;;;;;; code: TestApp.pro
PRO TestApp_Event, ev
  WIDGET_CONTROL, ev.ID, GET_UVALUE=uval
  CASE uval OF
    'goplot' : BEGIN
      WIDGET_CONTROL, ev.TOP, GET_UVALUE=ptrwin
      drawwin = *ptrwin
      drawwin.select
      drawwin.erase

      xx = findgen(10);
      cxx = cos(xx)
      sxx = sin(xx)
      p1 = PLOT(sxx, THICK=2, axis_style=2, Color='red', dim=[450,400], symbol='+', /current,
name='sin')
      p2 = PLOT(cxx, THICK=2, axis_style=2, Color='blue',/overplot, symbol='D', /current,
name='cos')
      yleg = max(cxx)
      xleg = n_elements(xx)
      leg = LEGEND(target=[p1, p2], /data, /auto_text_color, position=[xleg,yleg])
    END
    'gobarplot' : BEGIN
      WIDGET_CONTROL, ev.TOP, GET_UVALUE=ptrwin
      drawwin = *ptrwin
      drawwin.select
      drawwin.erase
      xx = findgen(10);
      cxx = cos(xx)
```

```

    sxx = sin(xx)
    p1 = BARPLOT(sxx, index=0, NBARS=2, fill_color='green', dim=[450,400], /current,
name='sin')
    p2 = BARPLOT(cxx, index=1, NBARS=2, fill_Color='orange',/overplot, /current, name='cos')
    yleg = max(cxx)
    xleg = n_elements(xx)
    leg = LEGEND(target=[p1, p2], /data, /auto_text_color, position=[xleg,yleg])
    END
    'goclose' : WIDGET_CONTROL, ev.top, /DESTROY
    ENDCASE
END

PRO TestApp
    on_error, 2
    DEVICE, RETAIN=2, DECOMPOSED=0

    base = WIDGET_BASE(/COLUMN, XSIZE=500, YSIZE=550)
    plotbase = widget_base(base, /row, xsize = 500, ysize=500)
    drawWin0 = WIDGET_WINDOW(plotbase, UVALUE='DRAW0', UNAME='DRAW0', ysize =
500, xsize=500)
    consbase = WIDGET_BASE(base, /ROW, XSIZE=500, YSIZE=30)
    plotbutton = widget_button(consbase, VALUE='Plot', UVALUE='goplot')
    barplotbutton = widget_button(consbase, VALUE='Bar Plot', UVALUE='gobarplot')
    closebutton = widget_button(consbase, VALUE='Close', UVALUE='goclose')

    WIDGET_CONTROL, base, /REALIZE
    WIDGET_CONTROL, drawWin0, GET_VALUE = gDraw
    WIDGET_CONTROL, base, set_uvalue=ptr_new(gDraw)

    XMANAGER, 'TestApp', base, /NO_BLOCK
END

;:::::: end of code: TestApp.pro
;::::::

```

Subject: Re: Plot and Legend problem
Posted by [huangsu](#) on Tue, 25 Aug 2015 03:26:20 GMT
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I narrow down the problem a little bit. I only need to click on a label on the legend, so that it become focus. Then the problem will occur. Not necessary to move the legend. Could someone help me or suggest a work around? Thanks very much in advance.
