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Subject: Plot and Legend problem

Posted by [huangs](#) 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=uv  
CASE uv 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

```

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