Subject: IDL object graphics code logs me out?!
Posted by Paul Van Delst[1] on Thu, 18 Jun 2009 21:21:16 GMT

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Hello,

I think I may be losing my mind, but just in case I'll post the question here:

Has anyone had any weird experiences where using object graphics in IDL causes them to be
logged out of their system?

It's happened to me four times in about the last 30 minutes and I can now reproduce it
relatively regularly with the code I'm testing.

My system is a Red Hat Enterprise 5.0 jobbie with,

IDL> print, !version
{ x86 linux unix linux 7.0 Oct 25 2007   32   64}

I also have the patch installed such that I can get the IDL help running (however the
problem occurs whether or not I start the idlhelp server.)

My *original* direct graphics code looked like:

```
  psave = !P
  !P.MULTI = [0,self.n_Bands,1]
  FOR i = 0L, self.n_Bands-1L DO BEGIN
    PLOT, *(*self.Frequency)[i], *(*self.Response)[i], $
        TITLE='Band #'+STRTRIM(i+1,2), $
        XTITLE='Frequency', $
        YTITLE='Relative response',yrange=[-0.2,1.2]
    IF ( N_ELEMENTS(OverPlot) GT 0 ) THEN BEGIN
      OPLOT, *(*OverPlot.Frequency)[i], *(*OverPlot.Response)[i], $
          COLOR=RED, PSYM=-4
    ENDIF
  ENDFOR
  !P = psave
```

That's been working fine for a couple weeks now. I started to play around with object
graphics using the examples pretty much directly from the online help and came up with the
following initial code:

```
  mywindow = OBJ_NEW('IDLgrWindow')
  myview = OBJ_NEW('IDLgrView', VIEWPLANE_RECT=[-10,-10,20,20])
  mymodel = OBJ_NEW('IDLgrModel')
  myview->Add, mymodel

  myplot  = OBJARR(self.n_Bands)
```

```
  myoplot = OBJARR(self.n_Bands)
  FOR i = 0L, self.n_Bands-1L DO BEGIN
   myplot[i] = OBJ_NEW('IDLgrPlot', $
                *(*self.Frequency)[i], $
                *(*self.Response)[i]   )
   mymodel->Add, myplot[i]
   IF ( N_ELEMENTS(OverPlot) GT 0 ) THEN BEGIN
     myoplot[i] = OBJ_NEW('IDLgrPlot', $
                 *(*OverPlot.Frequency)[i], $
                 *(*OverPlot.Response)[i], $
                 COLOR=RED)
     myoplot[i]->SetProperty, SYMBOL=OBJ_NEW('IDLgrSymbol',COLOR=RED,DATA=4)
     mymodel->Add, myoplot[i]
   ENDIF
  ENDFOR
  mywindow->Draw, myview
```

The fact that the above OG code doesn't actually produce any output in the created object graphics window is overwhelmingly trivial next to the fact that it also logs me out of my system (shutting down everything else I had running as well).

Anyone have any ideas, memories, etc about this rather bizarre effect?

cheers,

paulv

Subject: Re: IDL object graphics code logs me out?!
Posted by David Fanning on Tue, 23 Jun 2009 16:49:32 GMT
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Paul van Delst writes:

> Anyone know how to set software opengl on a linux box?

If you type this:

  IDL> HELP, /PREFERENCES

You will see a list of all the preferences IDL sets. (Add a /FULL if you want more details.) One of those preferences is IDL_GR_WIN_RENDERER. This is what you want to set to "software".

  IDL> Set_Pref, 'IDL_GR_WIN_RENDERER', 1, /COMMIT

Cheers,

David
--
David Fanning, Ph.D.
Coyote's Guide to IDL Programming (www.dfanning.com)
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: IDL object graphics code logs me out?!
Posted by David Fanning on Thu, 25 Jun 2009 14:34:57 GMT
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Paul van Delst writes:

> Has anyone had any weird experiences where using object graphics in IDL causes them to be
> logged out of their system?

Did you solve this problem?

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: IDL object graphics code logs me out?!
Posted by Paul Van Delst[1] on Wed, 01 Jul 2009 17:44:38 GMT
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David Fanning wrote:
> Paul van Delst writes:
>
>> Has anyone had any weird experiences where using object graphics in IDL causes them to be

>> logged out of their system?
>
> Did you solve this problem?

Hi David,

If by solved you mean "removed all object graphics from my IDL code" then, yes.

In reality, no, I haven't been able to test the suggested fix(es). I have too many things running in the background/on other desktops right now so I will need to wait for some scheduled system downtime (we get that about once every two or so months for our linux systems).

Thanks for checking up, though. :o)

cheers,

paulv

Subject: Re: IDL object graphics code logs me out?!
Posted by David Fanning on Wed, 01 Jul 2009 18:00:48 GMT
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Paul van Delst writes:

> If by solved you mean "removed all object graphics from my IDL code" then, yes.

Yeah, that's what I meant. ;-)

Cheers,

David

--
David Fanning, Ph.D.
Coyote's Guide to IDL Programming (www.dfanning.com)
Sepore ma de ni thui. ("Perhaps thou speakest truth.")