
Subject: Re: oplot in Object Graphics
Posted by [Karl Schultz](#) on Wed, 12 Nov 2003 15:50:58 GMT
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It is hard to tell why it may be slow without seeing the entire program.

However, I have the sneaking suspicion that you are running all of the code listed below for each time you draw to the screen, as you would have to do in Direct Graphics. In Object Graphics, this is not the case. You create all the objects (view, model, plots) just once and then call only the window's draw method when you want to draw.

The overall program logic would look something like this:

Create Window

Create View, Model, and Plots (essentially the code quoted below)

Draw the view (e.g., oWindow->Draw, oView)

REPEAT

 user does something.
 modify the data in the plot objects according to what the user did (if needed)

 Redraw the view (e.g., oWindow->Draw, oView)

UNTIL user wants to quit

The important thing is that you want to perform the step of creating the view, model, and plot objects only once. Then everytime you want to redraw the window, you just call Draw.

If you really are doing it in the way I have just described, then you'll have to tell us more about your program. Maybe you can post the entire thing if it is not too long. How big is your plot data? How does the code work that triggers the drawing operation, etc..

Karl

"Miguel Angel Cordoba" <cordoba@grahi.upc.es> wrote in message news:3FB1F9B9.10307@grahi.upc.es...

> Thank you Karl,
> It works, but I execute this function when the user moves the mouse over one
> image and it's very slow. Do you know another faster method?. It's
> indispensable
> to create one object 'IDLgrPlot' in the for statement?
>
> Thank you!.

```

>
>
> Karl Schultz wrote:
>
>> "Miguel Angel Cordoba" <cordoba@grahi.upc.es> wrote in message
>> news:3FB0EEF7.8040005@grahi.upc.es...
>>
>>
>>> Hi,
>>> I'm migrating my applitations to Object Graphics and I don't
>>> know how to make an oplot.
>>>
>>> In direct graphics I execute:
>>>     PLOT,x,y,xrange=[xmin,xmax],yrange=[ymin,ymax],
>>> xstyle=1,ystyle=1,
>>>
>>>
>> $
>>
>>
>>>
>>>
>
> xtitle='Xtitle',ytitle='Ytitle',/Nodata,charsize=siz_ch,color=44,XMARGIN=5.
,
>>
>>
>>> $
>>>     YMARGIN=3.,FONT=1
>>>
>>>     FOR,i=0,n-1 BEGIN
>>>         FOR,j=0,n-1 BEGIN
>>>             OPLOT,x(i,j),y,color=44
>>>         ENDFOR
>>>     ENDFOR
>>>
>>>     OPLOT,x(n,n),y,color=70,thick=2
>>>
>>> Then in Object Graphics:
>>>
>>> oView = obj_new('IDLgrView')
>>> oModel = obj_new('IDLgrModel')
>>> oPlot =
>>> obj_new('IDLgrPlot',x,y,xrange=[xmin,xmax],yrange=[xmin,ymax ])
>>> oPlot->GetProperty, XRANGE = xr, YRANGE = yr
>>> xc = norm_coord(xr)
>>> yc = norm_coord(yr)
>>> xc[0] = xc[0] - 0.5

```

```

>>> yc[0] = yc[0] - 0.5
>>> oPlot->SetProperty, XCOORD_CONV = xc, YCOORD_CONV = yc
>>>
>>> oXTitle = obj_new('IDLgrText', 'X Title')
>>> oYTitle = obj_new('IDLgrText', 'Y Title')
>>> ; Axes
>>> oXAxis0 = obj_new('IDLgrAxis', 0, RANGE = xr, LOCATION = [xr[0],
>>> yr[0]], $
>>>     XCOORD_CONV = xc, YCOORD_CONV = yc, TITLE = oXTitle, $
>>>     COLOR = [255,0,0], /EXACT)
>>> oYAxis0 = obj_new('IDLgrAxis', 1, RANGE = yr, LOCATION = [xr[0],
>>> yr[0]], $
>>>     XCOORD_CONV = xc, YCOORD_CONV = yc, TITLE = oYTitle, $
>>>     COLOR = [0,0,255], /EXACT)
>>>
>>> ; construct the hierarchy
>>> oModel->Add, oXAxis0
>>> oModel->Add, oYAxis0
>>> oModel->Add, oPlot
>>> oView->Add, oModel
>>>
>>>
>>>
>>
>> You would add something like:
>>
>>     FOR,i=0,n-1 BEGIN
>>         FOR,j=0,n-1 BEGIN
>>             oModel->Add,
>> OBJ_NEW('IDLgrPlot',x(i,j),y,color=[44,0,0])
>>         ENDFOR
>>     ENDFOR
>>
>>     oModel->Add, OBJ_NEW('IDLgrPlot',
>> x(n,n),y,color=[70,0,0],thick=2)
>>
>>
>>
>>> ; create the destination
>>> sWinfo.wDrawPVR->DRAW,oView
>>>
>>> Then how can I don't the oplot?
>>> Can you help me?
>>>
>>> Thanks a lot!.
>>>

```

>>> --
>>> -----
>>> Miguel Angel Cordoba
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