Subject: Re: Objects and Widgets
Posted by davidf on Tue, 09 May 2000 07:00:00 GMT

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Mark Guagenti (mgenti@evansville.net) writes:

> I am trying to learn how to use objects and widgets together and I have
> ran across a question for all of you. When I am creating a widget button
> such as:
>
> openID = Widget_Button(fileID, Value='Open...', Event_Pro='XPU_RI_Open')
>
> Do I have to make a procedure XPU_RI_Open such as:
>
> PRO XPU_RI_Open, event
> Widget_Control, event.top, Get_UValue=info, /No_Copy
>
> info.obj->open
>
> Widget_Control, event.top, Set_UValue=info, /No_Copy
> END
>
> How come you can't call the object method directly from Event_Pro?

How come pigs is purple and my girlfriends don't love me no more?
It just is, is why.

> I will be using a lot of methods. Will I always have to make a procedures
> to call them?

You will unless you can figure out a way to be clever. :-)

I like to write my event handler "methods" to accept a single
positional parameter--the event structure--just like I write
my event handlers. Then, for every widget that is going to
generate an event in my object widget program, I fill the
user value of the widget with a simple structure containing
the object reference and the event handler method to call.
It looks like this:

    openID = Widget_Button(menuID, Value='Open File...', $
      UValue={object:self, method:'Open'})
    quitID = Widget_Button(menuID, Value='Quit', $
      UValue={object:self, method:'Quit'})

All my events go to one giant event handler. (I learned this
from Stein Vidar. :-) And I write the event handler like this:

```
PRO Handle_All_Events, event
Widget_Control, event.id, Get_UValue=info
Call_Method, info.method, info.object, event
END
```

Pretty clever, huh? I always use the same event handler, so I never
have to write it over. And my object methods are written essentially
like my event handler procedures. :-)

Cheers,

David
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David Fanning, Ph.D.
Fanning Software Consulting
Phone: 970-221-0438 E-Mail: davidf@dfanning.com
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Toll-Free IDL Book Orders: 1-888-461-0155