Subject: Re: xwindow and ps_form questions
Posted by davidf on Tue, 19 Jan 1999 08:00:00 GMT
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Brad Gom (gombg@uleth.ca) writes:

> I've been trying to add a xwindow widget to my widget program. I have
> two problems:
>
> 1) when I use xwindow within a widget program (ie I call xwindow to run
> a plot routine
>   when a certain widget event occurs) the plot works fine. I can
> resize properly.
>   (xwindow works perfectly when I call it from a non-widget program)
>   But, when I try to configure a postscript file for output, I get the
> following error:
>
>> % XMANAGER: Caught unexpected error from client application. Message follows...
>> % Variable is undefined: CANCEL.
>>
>   It seems that the main xwindow routine is not waiting for the
> ps_form routine to return its structure. The
>   error occurs on this line in xwindow:
>
>> PRO XWINDOW_CONFIGURE_FILES, event
>> WIDGET_CONTROL, event.top, GET_UVALUE=info, /NO_COPY
>>   ; What kind of file to configure?
>> WIDGET_CONTROL, event.id, GET_VALUE=whichFile
>> CASE whichFile OF
>>   'Configure PostScript File...': BEGIN
>>   newkeywords = PS_FORM(DEFAULTS=info.ps, $
>>   LocalDefaults=info.pslocal, Cancel=cancel, Create=create)
>>   IF NOT cancel THEN info.ps = newkeywords
>>
>   What special precautions do I need to take when including xwindow
> in a widget program?

None. Download the latest versions of both programs. When IDL
changed the Modal behavior in IDL 5, I had to update the way
the program behaved. The proper call in the latest version of
XWindow is this:

  'Configure PostScript File...': BEGIN
    newkeywords = PS_FORM(DEFAULTS=info.ps, Parent=event.top, $
      LocalDefaults=info.pslocal, Cancel=cancel, Create=create)

Where the PARENT keyword is used to pass a group leader to the PS_FORM
top-level base. A group leader is *required* to create a proper modal

widget.

You can get the latest versions here:

    http://www.dfanning.com/programs/xwindow.pro
    http://www.dfanning.com/programs/ps_form.pro

> 2) I want to register the xwindow when I create the main widget
> hierarchy. How do I plot to the
>   existing xwindow, and retain the ability to resize and output?

This is a good idea to want to plot to the existing XWindow, but
the program was never designed with that requirement in mind. In fact,
what I specifically had in mind was to write a program that would
serve as an model for how you could write a resizeable window
for *your* program requirements.

If you really want to plot into the existing XWindow, then I suggest
you re-write the guts of XWindow as an object. It wouldn't take more than
a couple of hours, I think. I'll leave it as a programming exercise for
the user. :-)

Cheers,

David
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[Note: This follow-up was e-mailed to the cited author.]