Subject: Re: Widgets: group leader and procedures
Posted by Robert Moss on Sun, 04 Jan 2004 12:45:17 GMT

In the case you have described, you can simply use event.top as the group leader for the new top level base. Here event.top is the tlb created in your main procedure.

```
;----------------------------------------
  PRO analyse_simset_data, event
    widget_control, event.top, get_uvalue = pstate

    base2=widget_base( title = 'Simset Analysis', $
  group_leader = event.top )
    <...etc...>
  END
;----------------------------------------
```

A bit of unsolicited advice: you had the following:

```
    state={ bunch of stuff}
    pstate = Ptr_new(state, /no_copy)
    widget_control, tlb, set_uvalue = pstate
```

I would do this instead:

```
    state = {bunch of stuff}
    widget_control, tlb, set_uvalue = state, /no_copy
```

There is no real need to stuff your entire widget state into a pointer. If you have dynamic data structure elements or large array elements in the state, make those individual elements pointers, but not the entire state structure. This will save you from typing a lot of extra asterisks when you access the state later. Your mileage may vary. Batteries not included. May contain nuts.

Robert Moss, PhD

Karthik wrote:
> Hello All,
>
>   I have a main programme with a widget base and it includes a widget
> button called "Alalyse Data" - when the user clicks on it I would like
> to execute the bit of code called "alalyse_simset_data", so the thing
> looks like this (not exactly the same but the code below is illustrative)
>
> ;--

```
> Pro main_programme
>     tlb      = widget_base()
>     analyse  = widget_button(row5, value = 'Analyse Data', $
>          Event_PRO= 'analyse_simset_data')
>     <etc>
>        widget_control, tlb, /realize
>
>     state={ bunch of stuff}
>     pstate = Ptr_new(state, /no_copy)
>     widget_control, tlb, set_uvalue = pstate
>        xmanager, 'make_random_activity', tlb
> END
> ;----------------------------------------
>
>
> Now I would like, for clarity, the analyse_simset_data bit of code to be
> a completely independent file and I would like that to contain a widget
> as well.
>
> ;----------------------------------------
> PRO analyse_simset_data, event
>     widget_control, event.top, get_uvalue = pstate
>
>     base2=widget_base(  ?????????? )
> END
> ;----------------------------------------
>
>
>     The ????? marks refer to my doubts on the subject: how do you pass
> on the group leader information in the state pointer so that killing the
> main widget from main_programme kills the widget created in
> analyse_simset_data as well? Is the group leader information a string?
> Are there any rules I should follow when a procedure invoked my a main
> programme creates a widget? Any advice/suggestion would be greatly
> appreciated.
>
>     Thanks,
>
> Karthik.
>
```