
Subject: Re: Beginner going INSANE
Posted by [davidf](#) on Wed, 20 Sep 2000 07:00:00 GMT
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Andy (andymcfee@andymcfee.plus.com) writes:

> this will probably be an easy question for all you experts out there but its
> got me beat -
>
> I have been given a PV-WAVE program that simulates a certain lab experiment.
> The variables for this sim
> are defined in the source code and my mission is to add a user interface
> using PV-WAVE widgets that allows a user to change these variables on screen
> before running the simulation.

My first thought on reading this question was that this would certainly flush all the PV-Wave users out of hiding. But now, seeing that Andy has had to reply three times to his own post, I'm not sure there *are* any PV-Wave users in hiding. :-(

Perhaps it's time we voted to change the name of this group. Since the Cobra people left, we can probably get the old comp.lang.idl name back for a song. :-)

Anyway, I don't know jack about PV-Wave anymore. But I do remember looking at the widget interface once and thinking, "Wow. This is sure more complicated than IDL!" (I'm sure it is *much* more sophisticated, however.) In any case, I don't remember seeing any way to pass something like an info structure around in widget programs. I suspect that data has to be passed in Common blocks.

But, as I say, I really don't know the first thing about it. I just feel badly that someone is suffering mental health problems and we just all stand around gawking. :-(

Cheers,

David

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Subject: Re: Beginner going INSANE
Posted by [promashkin](#) on Wed, 20 Sep 2000 07:00:00 GMT
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I don't belong to "experts" and use IDL, not PV-WAVE, but if you posted a little more detailed description of *how* you are redefining the data array it probably would make it easier to help you. How exactly are you passing the contents of the data entry fields from the widget to the main routine?

Cheers,
Pavel

Subject: Re: Beginner going INSANE
Posted by [promashkin](#) on Thu, 21 Sep 2000 07:00:00 GMT
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Woo-Hoo! I am off the hook :-)

Thanks, Angela!
Cheers,
Pavel

P.S. Lets' just say that I was about to learn PV-Wave, but feel a lot better that I don't have to :-)

Subject: Re: Beginner going INSANE
Posted by [angerelle](#) on Thu, 21 Sep 2000 07:00:00 GMT
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There are PV-WAVE users out here! We're just not all working in US timezones!

I've knocked up a quick example for two text boxes using common blocks to pass around the array that needs to be changed plus the widget ids so that I can switch on wid to work out which element to set.

-----8<-----beginnerwidget.pro -----

```
PRO get_data_cb, wid, data
  COMMON Stored, data_store, text0, text1
  ; need to have common block with array that we want to alter, and all
```

```
; of the widget ids for the text boxes. After this first declaration
; the size of the common block can't grow, so make sure that you've
; got everything you want in here, because common blocks are
; persistent during the whole of a PV-WAVE session!
```

```
; Get the typed text, should probably do some type checking
; (with SIZE for example) to check that it's suitable for your array
value = WwGetValue(wid)
```

```
; Switch on wid to find out which text box was set, and change
; appropriate array element
CASE wid OF
  text0: data_store(0) = value
  text1: data_store(1) = value
  ELSE:      ; do nothing
ENDCASE
```

```
; data_store should have been changed!
PRINT, data_store
```

END

```
PRO Beginnerwidget
  COMMON Stored, data_store, text0, text1
```

```
; any old numbers to make it easy
data_store = INDGEN(12)
```

```
top = WwInit('test', 'test', layout, /form)
```

```
text0 = WwText(layout, 'get_data_cb', cols = 10, /left, /top, $
               label="data_store(0)")
```

```
text1 = WwText(layout, 'get_data_cb', cols = 10, top=text0, /left, $
               label="data_store(1)")
```

```
status = WwSetValue(top, /Display)
```

```
WwLoop
```

END

-----8<-----

Hope this helps,
Angela

> My first thought on reading this question was that
> this would certainly flush all the PV-Wave users
> out of hiding. But now, seeing that Andy has had

> to reply three times to his own post, I'm not sure
> there **are** any PV-Wave users in hiding. :-(
>
> Perhaps it's time we voted to change the name
> of this group. Since the Cobra people left, we
> can probably get the old comp.lang.idl name
> back for a song. :-)
>

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Subject: Re: Beginner going INSANE
Posted by [Andy\[1\]](#) on Thu, 21 Sep 2000 07:00:00 GMT
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"How exactly are you passing the contents of the data entry fields from the widget to the main routine?"

I'm not, thats the bit I cant do.. haha

as well as not being able to make the program differentiate between which variable it is actually updating..

andy
