Subject: Re: GUI procedure to function
Posted by R.Bauer on Wed, 07 Apr 2004 13:30:41 GMT
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Nitin Katiyar wrote:
> Hi.
> I wish to convert a GUI procedure writtern in IDL ,to its equilvalent
> function so that I am
> able to return values back to the calling procedure. Since the
> procedure doesnt return the values , I need the function to do the
> same.
>
> I am posting the procedure listing along with this mail.Kindly someone
> please
> tell me the way to convert it to a correspondidng function so that I
> can return
> the input variable back to calling procedure.
>
> TIA
> -shishir

Hi

you have to declare the procedure wid_input as function.
The return statement must be behind the XMANAGER.

The return value must be defined outside of the GET_UVALUE structure of
the base, because this is destroyed at the moment the XMANAGER is killed.

I prefer pointer, here is a small example

```
PRO wid5_event,event

   WIDGET_CONTROL,event.top,GET_UVALUE=x

   cmd=WIDGET_INFO(event.id,/UNAME)
   CASE cmd OF
     'QUIT' :  WIDGET_CONTROL,event.top,/DESTROY
     'PRINT': BEGIN
        id=WIDGET_INFO(event.top,FIND_BY_UNAME='TEXT')
        WIDGET_CONTROL,id,SET_VALUE=(*x).value
        (*x).value='Goodby'
     END
```

```
      ELSE:
   ENDCASE

END

function wid5
   x={value:'Hello'}
   x=PTR_NEW(x,/NO_COPY)

   id_base=WIDGET_BASE(ROW=3)
   id_PRINT=WIDGET_BUTTON(id_base,VALUE='PRINT',UNAME='PRINT')
   id_quit=WIDGET_BUTTON(id_base,VALUE='QUIT',UNAME='QUIT')
   id_text=WIDGET_TEXT(id_base,VALUE='',UNAME='TEXT')

   WIDGET_CONTROL,id_base,/REALIZE,SET_UVALUE=x
   XMANAGER,'wid5',id_base
   result=*x
   ptr_free,x
   return,result
END


regards

Reimar




>
>
>  *---------Listing of wid_input.pro--------------*
>
>  pro wid_input_event, ev
>  WIDGET_CONTROL, ev.id, GET_VALUE=input
>  if(input eq 'OK') then $
>  WIDGET_CONTROL, ev.top, /DESTROY $
>  else if(input eq 'Cancel') then $
>  Result = DIALOG_MESSAGE('You have not entered the Discharge Value',
>  /INFORMATION , $
>     TITLE='Warning')$
>  else WIDGET_CONTROL, ev.id, SET_VALUE=''
>  end
>
>  pro wid_input,type  ;basically type is passed as a parameter to this
>  procedure
>  type='injection'   ;here i have taken a default value to run it alone.
>  ;type='pumping'
```

```
>
>  case type of
>  'pumping':begin
>   base = WIDGET_BASE(XOFFSET=5 ,YOFFSET=5 ,SCR_XSIZE=180 ,SCR_YSIZE=100
>   $
>       ,TITLE='Discharge Input' ,SPACE=3 ,XPAD=3 ,YPAD=3
>  ,TLB_FRAME_ATTR=1)
>   field = CW_FIELD(base, TITLE = "Enter the Discharge Value",
>  /FRAME,/RETURN_EVENTS,XSIZE=4)
>   button1 = WIDGET_BUTTON(base, VALUE='OK', UVALUE='Ok',XOFFSET=20
>  ,YOFFSET=40 ,SCR_XSIZE=60 $
>      ,SCR_YSIZE=20,/ALIGN_CENTER)
>   button2 = WIDGET_BUTTON(base, VALUE='Cancel',
>  UVALUE='CANCEL',XOFFSET=90 ,YOFFSET=40 $
>     ,SCR_XSIZE=60 ,SCR_YSIZE=20,/ALIGN_CENTER)
>     end
>  'injection':begin
>   base = WIDGET_BASE(XOFFSET=5 ,YOFFSET=5 ,SCR_XSIZE=320 ,SCR_YSIZE=140
>   $
>       ,TITLE='Injection Well Input' ,SPACE=3 ,XPAD=3 ,YPAD=3
>  ,TLB_FRAME_ATTR=1,/COLUMN)
>   field1 = CW_FIELD(base, TITLE = "Enter the Discharge Value",
>  /FRAME,/RETURN_EVENTS,XSIZE=4)
>   field2 = CW_FIELD(base, TITLE = "Enter the Concentration Value",
>  /FRAME,/RETURN_EVENTS,XSIZE=4)
>   Bbase = WIDGET_BASE(base,XOFFSET=5 ,YOFFSET=80 ,SCR_XSIZE=320
>  ,SCR_YSIZE=30  $
>        ,SPACE=3 ,XPAD=3 ,YPAD=3 ,TLB_FRAME_ATTR=1)
>     button1 = WIDGET_BUTTON(Bbase, VALUE='OK', UVALUE='Ok',XOFFSET=70
>  ,YOFFSET=5 ,SCR_XSIZE=60 $
>      ,SCR_YSIZE=20,/ALIGN_CENTER)
>   button2 = WIDGET_BUTTON(Bbase, VALUE='Cancel',
>  UVALUE='CANCEL',XOFFSET=140 ,YOFFSET=5 $
>     ,SCR_XSIZE=60 ,SCR_YSIZE=20,/ALIGN_CENTER)
>           end
>    ENDCASE
>  WIDGET_CONTROL, base, SET_UVALUE=field
>  ;WIDGET_CONTROL, field, SET_VALUE=''
>  WIDGET_CONTROL, base, /REALIZE
>  XMANAGER, 'wid_input', base,/JUST_REG
>  end
```

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a IDL library at ForschungsZentrum Juelich
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html
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