
Subject: Re: Trouble with IDL 5.0.2 (filled contours) unsolved?

Posted by [rivers](#) on Thu, 05 Mar 1998 08:00:00 GMT

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In article <34FD2406.D7CD49EC@gmx.net>, Reinhold Schaaf <Kakadu42@gmx.net> writes:

```
> A third remark concerns event handling: It is not possible to define a
> method of a class as the event handler of a widget. Consider:
>
> PRO CFrame__Define
>   struct = { CFrame,    $
>             wBase:0L,   $
>             wDraw:0L    $
>           }
> END
>
> FUNCTION CFrame::Init
>   self.wBase = WIDGET_BASE()
>   self.wDraw = WIDGET_DRAW(self.wBase)
>   WIDGET_CONTROL, self.wBase, EVENT_PRO='CFrame::Event'; Not allowed!
>   WIDGET_CONTROL, self.wBase, /REALIZE
>   RETURN, 1
> END
>
> PRO CFrame::Event, sEvent
>   ;handle events
> END
>
> This leads to the runtime error:
>
> % WIDGET_CONTROL: Object method is not allowed in this context.
>
> As a consequence, one is forced to make the event handler a global
> function. But global functions cannot access members of objects, so one
> has to add methods to the class which would be unnecessary otherwise.
```

I agree that this is somewhat inconvenient, but the workaround is really pretty easy. The trick I use is to stick the object itself in the uvalue of the top level base for this object. There is no need to keep the list of objects. Here is an example:

```
*****
;
pro mca_display_event, event ; event processing for MCA application

    widget_control, event.top, get_uvalue = mca_display
    mca_display->event, event
end
```

```
.*****  
,  
pro mca_display::event, event ; event processing for MCA application
```

```
case event.id of
```

```
.... Rest of event processing goes here.
```

```
.*****  
,  
function mca_display::init, font_size=font_size, parent=parent  
...  
base = self.widgets.base  
widget_control, base, set_uvalue=self  
xmanager, 'mca_display::init', base, event='mca_display_event', $  
cleanup = 'mca_display_cleanup', /no_block  
...
```

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