
Subject: Trouble with CW_BGROUP events

Posted by [Phillip Bitzer](#) on Mon, 12 Jun 2006 00:14:18 GMT

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Hello all

New to IDL, kind of learning as I go. I am having trouble with a widget interface, in which I want a set of radio buttons (created by cw_bgroup) to control (among other things) the sensitivity of some sliders. The buttons and sliders are located on a tab interface, but are on the same tab. Whenever I trigger a event with the "satview_GUI_changeAngle" code, it runs through fine once, but then tries again to go through the code, (seemingly) without a second event. I tried to /no_release keyword, but to no avail. Any ideas?

Thanks in advance for any help.

WIDGET CREATION CODE:.....

```
...
tabAngID = WIDGET_BASE(tabID, Event_Pro='satview_GUI_changeAngle')
;create the sliders for the angles of the CCD's
  angle3ID=CW_FSlider(tabAngID,uvalue='angle3',uname='angle3')
  angle4ID=CW_FSlider(tabAngID,uvalue='angle4',uname='angle4')
;create the radio buttons for the number of CCD's
  numCCDID = CW_BGROUP(tabAngID,['1','2
(Default)'],button_uValue=[1,2],/exclusive,set_value=1,uvalu e='numofCCDs',/no_release)
```

EVENT HANDLER CODE:.....

```
pro satview_GUI_changeAngle,event

  widget_control,event.id, get_value=buttonvalue,get_uvalue=userValue
  CASE userValue OF
    ...
    'numofCCDs' : BEGIN
      angle3ID = widget_info(Event.top, find_by_uname='angle3')
      angle4ID = widget_info(Event.top, find_by_uname='angle4')
      CASE buttonvalue OF
        '1' : widget_Control,angle3ID,SENSITIVE=0 &
widget_Control,angle4ID,SENSITIVE=0
          END
        '2' : widget_Control,angle3ID,SENSITIVE=1 &
widget_Control,angle4ID,SENSITIVE=1
          END
      ELSE:RETURN
      ENDCASE
      RETURN
    END
  ELSE : RETURN;do nothing
```

ENDCASE

end

Subject: Re: Trouble with CW_BGROUP events
Posted by [A. D. & J.C. Cool](#) on Mon, 12 Jun 2006 10:53:24 GMT
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Phillip Bitzer wrote:

```
> Hello all
> New to IDL, kind of learning as I go. I am having trouble with a widget
> interface, in which I want a set of radio buttons (created by
> cw_bgroupp) to control (among other things) the sensitivity of some
> sliders. The buttons and sliders are located on a tab interface, but
> are on the same tab. Whenever I trigger a event with the
> "satview_GUI_changeAngle" code, it runs through fine once, but then
> tries again to go through the code, (seemingly) without a second event.
> I tried to /no_release keyword, but to no avail. Any ideas?
>
> Thanks in advance for any help.
>
>
> WIDGET CREATION CODE.....
> ...
> tabAngID = WIDGET_BASE(tabID, Event_Pro='satview_GUI_changeAngle')
> ;create the sliders for the angles of the CCD's
>   angle3ID=CW_FSlider(tabAngID,uvalue='angle3',uname='angle3')
>   angle4ID=CW_FSlider(tabAngID,uvalue='angle4',uname='angle4')
> ;create the radio buttons for the number of CCD's
>   numCCDID = CW_BGROUP(tabAngID,['1','2
>   (Default)'],button_uValue=[1,2],/exclusive,set_value=1,uvalue='numofCCDs',/no_release)
>
> EVENT HANDLER CODE.....
> pro satview_GUI_changeAngle,event
>
>   widget_control,event.id, get_value=buttonvalue,get_uvalue=userValue
>   CASE userValue OF
>     ...
>     'numofCCDs' : BEGIN
>       angle3ID = widget_info(Event.top, find_by_uname='angle3')
>       angle4ID = widget_info(Event.top, find_by_uname='angle4')
>       CASE buttonvalue OF
>         '1' : widget_Control,angle3ID,SENSITIVE=0 &
> widget_Control,angle4ID,SENSITIVE=0
>         END
>         '2' :widget_Control,angle3ID,SENSITIVE=1 &
> widget_Control,angle4ID,SENSITIVE=1
```

```

>     END
>     ELSE:RETURN
>     ENDCASE
>     RETURN
>     END
> ELSE  : RETURN;do nothing
> ENDCASE
>
> end

```

Phillip,

I've rearranged your code a little, and it works OK for me under IDL 6.3.

Andrew

```

pro satview_GUI_changeAngle_event,event

    widget_control,event.id,
    get_value=buttonvalue,get_uvalue=userValue

    print,'uservalue = ',uservalue
    print,'buttonvalue = ',buttonvalue

    CASE userValue OF

        'numofCCDs' : $
            BEGIN
                angle3ID = widget_info(Event.top,
find_by_uname='angle3')
                angle4ID = widget_info(Event.top,
find_by_uname='angle4')

                CASE buttonvalue OF
                    '0' : $
                        Begin
                            widget_Control,angle3ID,SENSITIVE=0
                            widget_Control,angle4ID,SENSITIVE=0
                        END

                    '1' : $
                        Begin
                            widget_Control,angle3ID,SENSITIVE=1
                            widget_Control,angle4ID,SENSITIVE=1
                        END
                    ELSE:RETURN
                ENDCASE
            END
    END

```

```
    RETURN
    END ; of numofCCDs
```

```
ELSE :
ENDCASE
```

```
end
```

```
pro satview_GUI_changeAngle
```

```
tabAngID = WIDGET_BASE(/Col, Event_Pro='satview_GUI_changeAngle')
;create the sliders for the angles of the CCD's
```

```
angle3ID=CW_FSlider(tabAngID,uvalue='angle3',uname='angle3')
```

```
angle4ID=CW_FSlider(tabAngID,uvalue='angle4',uname='angle4')
;create the radio buttons for the number of CCD's
numCCDID = CW_BGROUP(tabAngID,['1','2(Default)'],$
```

```
button_uValue=[1,2],/exclusive,set_value=1,$
```

```
uvalue='numofCCDs',/no_release,/frame)
```

```
widget_control,tabAngid,/real
```

```
xmanager, 'satview_GUI_changeAngle',tabAngID
```

```
end
```

Subject: Re: Trouble with CW_BGROUP events
Posted by [Phillip Bitzer](#) on Tue, 13 Jun 2006 02:45:15 GMT
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Thanks, everything works great now. Curious, why does cw_bgroup return 0 or 1 as the value? I was under the impression that if you specify the button_uvalue keyword, then the corresponding value would be returned (here 1 or 2).

Subject: Re: Trouble with CW_BGROUP events
Posted by [Andrew Cool](#) on Tue, 13 Jun 2006 22:39:57 GMT
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Phillip Bitzer wrote:

> Thanks, everything works great now. Curious, why does cw_bgroup return
> 0 or 1 as the value? I was under the impression that if you specify the
> button_uvalue keyword, then the corresponding value would be returned
> (here 1 or 2).

Phillip,

The online help says :-

BUTTON_UVALUE

An array of user values to be associated with each button and returned in the event structure. If this keyword is set, the user values are always returned, even if any of the RETURN_ID, RETURN_INDEX, or RETURN_NAME keywords are set.

Note : "returned in the event structure."

If you insert a help,/structure, event at the top of the event handler procedure, then you'll see something like this :-

ID	LONG	20
TOP	LONG	13
HANDLER	LONG	13
SELECT	LONG	1
VALUE	STRING	'2'

where the field event.value contains your stipulated button_uvalue, hence you could try :-

Case event.value of
'1'
'2'
etc

but that would fail when the event is generated by another widget that doesn't have a Value field in its structure.

Have you read the Building Applications manual, or bought David Fanning's book, subtitled "The Joy of Widgets"?

Cheers,

Andrew

Subject: Re: Trouble with CW_BGROUPEvents
Posted by [Andrew Cool](#) on Tue, 13 Jun 2006 22:58:22 GMT
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Phillip Bitzer wrote:

> Thanks, everything works great now. Curious, why does cw_bgroupereturn
> 0 or 1 as the value? I was under the impression that if you specify the
> button_uvalue keyword, then the corresponding value would be returned
> (here 1 or 2).

Phillip,

Perhaps this might be better.

Remove the button_uValue, and insert /Return_Name

```
numCCDID = CW_BGROUPE(tabAngID,['1','2(Default)'],$  
                        /exclusive,set_value=1,$
```

```
uvalue='numofCCDs',/no_release,/frame,/return_name)
```

Then your Case statement can select on event.value as either '1' or
'2(Default)'

It's almost a case of CW_BGroup being over-optioned...

Andrew

Subject: Re: Trouble with CW_BGROUPEvents
Posted by [Phillip Bitzer](#) on Wed, 14 Jun 2006 01:20:21 GMT
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Thought of using the return_name keyword, but I wanted to use the
number in other computations (not to mention the pesky 'Default'
floating around).

I just got Fanning's Guide to IDL . . . I guess Widgets are the next
purchase . . .

Subject: Re: Trouble with CW_BGROUPEvents
Posted by [Andrew Cool](#) on Wed, 14 Jun 2006 03:21:03 GMT
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Phillip Bitzer wrote:

> Thought of using the return_name keyword, but I wanted to use the
> number in other computations (not to mention the pesky 'Default'

> floating around).
>
> I just got Fanning's Guide to IDL . . . I guess Widgets are the next
> purchase . . .

/Return_index will give you 0 or 1 in your case of 2 buttons,
remembering that
IDL is a zero-based language, and will return an index in the range
[0..N_Buttons-1]

Andrew

Subject: Re: Trouble with CW_BGROUP events
Posted by [David Fanning](#) on Wed, 14 Jun 2006 03:56:43 GMT
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Phillip Bitzer writes:

> I just got Fanning's Guide to IDL . . . I guess Widgets are the next
> purchase . . .

Widgets are in the back. But if you are looking for advice
on CW_BGROUP, don't ask me. I've never used it. :-)

Cheers,

David

P.S. Let's just say button groups are so easy to make
that I always just make them. I never have any problems
getting them to act like I expect them to. :-)

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: Trouble with CW_BGROUP events
Posted by [Phillip Bitzer](#) on Wed, 14 Jun 2006 16:14:05 GMT
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I guess I forgot to mention that this was sample code, somewhat
simplified with what I was trying to do. I actually have 3 choices,
with values 1,2,4 (not just the 1,2), it might be expanded further. The
boss-man isn't sure yet how many there will be.

So you see I couldn't *quite* use the return index or some manipulation of it . . .

Again, you've been a great help, and I appreciate it.

Subject: Re: Trouble with CW_BGROUP events
Posted by [David Fanning](#) on Wed, 14 Jun 2006 16:20:33 GMT
[View Forum Message](#) <> [Reply to Message](#)

Phillip Bitzer writes:

> I guess I forgot to mention that this was sample code, somewhat
> simplified with what I was trying to do. I actually have 3 choices,
> with values 1,2,4 (not just the 1,2), it might be expanded further. The
> boss-man isn't sure yet how many there will be.
>
> So you see I couldn't *quite* use the return index or some manipulation
> of it . . .

I would just build the menus yourself using WIDGET_BUTTON.
This way, you can send individual button events to different
event handlers and otherwise act as if you knew *exactly*
what you are doing. It is SO much easier! :-)

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
