
Subject: Re: State of non-exclusive button
Posted by [David Fanning](#) on Fri, 31 Aug 2001 16:56:38 GMT
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Ken Bowman (k-bowman@null.tamu.edu) writes:

> How do you get the state (checked or unchecked) of a non-exclusive
> (toggle) button?

This is simple. Wrap the non-exclusive base up
in an object widget and call the IS_CHECKED method. :-)

> According to the Reference Guide there is a SET_BUTTON keyword to
> WIDGET_CONTROL, but no GET_BUTTON keyword. The GET_VALUE keyword
> returns the value of the button *label*. I guess that is consistent
> with using WIDGET_BUTTON(id, VALUE = 'Button Label') to create the
> button, but it seems to me to confuse the notions of 'value' and
> 'label'.

I'm telling you. First it's spelling, and now it's
consistency. What do you guys want anyway!? Those of
us who bill by the hour know the value of "confusing
notions", I can tell you. :-)

I think you have to keep track of non-exclusive
buttons the same way you keep track of droplist
values: you have to have some kind of buttonState
variable that you store in some user value that is
easy to get to. Personally, I'd store it in the user
value of the non-exclusive base widget. Then every
button could access it (to change its state) by looking
for it in its parent widget. Or, you could just put
it in the info structure along with everything else
you need to run your program.

Cheers,

David

--

David W. Fanning, Ph.D.
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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: State of non-exclusive button
Posted by [K. Bowman](#) on Fri, 31 Aug 2001 18:19:55 GMT
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In article <MPG.15f96faea752fcf989690@news.frii.com>, David Fanning
<david@dfanning.com> wrote:

- > I think you have to keep track of non-exclusive
- > buttons the same way you keep track of droplist
- > values: you have to have some kind of buttonState
- > variable that you store in some user value that is
- > easy to get to.

That's what I've been doing, but I thought a widget might be smart enough to keep track of its own state. ;-)

Ken

Subject: Re: State of non-exclusive button
Posted by [Steve Hartmann](#) on Fri, 31 Aug 2001 18:37:19 GMT
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On Fri, 31 Aug 2001 10:55:02 -0500, "K. Bowman"
<k-bowman@null.tamu.edu> wrote:

- > How do you get the state (checked or unchecked) of a non-exclusive
- > (toggle) button?
- >

I would create a button using CW_BGroup, like this:

```
buttonID = CW_BGroup(parentWidgetID, 'some description', /Col,  
/NonExclusive, Set_Value = InitialState)
```

The "/Col " puts the description text to the right of the toggle button. "InitialState" is set to "0" or "1" (unchecked or checked).

To determine the current state of the button, use:
Widget_Control, buttonID, Get_Value=CurrentState

Note that, as David suggests, you need to store the buttonID variable somewhere.

Is this what you were asking for?

-Steve

Subject: Re: State of non-exclusive button
Posted by [David Fanning](#) on Fri, 31 Aug 2001 20:28:00 GMT
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Ken Bowman (k-bowman@null.tamu.edu) writes:

> That's what I've been doing, but I thought a widget might be smart
> enough to keep track of its own state. ;-)

You're thinking of objects. :-)

Cheers,

David

--

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Subject: Re: State of non-exclusive button
Posted by [R.Bauer](#) on Mon, 03 Sep 2001 08:11:12 GMT
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"K. Bowman" wrote:

>
> How do you get the state (checked or unchecked) of a non-exclusive
> (toggle) button?
>
> According to the Reference Guide there is a SET_BUTTON keyword to
> WIDGET_CONTROL, but no GET_BUTTON keyword. The GET_VALUE keyword
> returns the value of the button *label*. I guess that is consistent
> with using WIDGET_BUTTON(id, VALUE = 'Button Label') to create the
> button, but it seems to me to confuse the notions of 'value' and
> 'label'.
>
> Thanks, Ken

I have a compound widget which might help.

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/cw_buttons.tar.gz

PRO test_event,ev

```
WIDGET_CONTROL,ev.id,get_uval=cmd
WIDGET_CONTROL,ev.top,get_uvalue=b
CASE cmd OF
'done':WIDGET_CONTROL,ev.top,/dest
'FF': BEGIN
  WIDGET_CONTROL,ev.id,get_value=v
  print,v.set
  idx=(WHERE(v.set EQ 1,count))[0]
  IF count GT 0 THEN BEGIN
```

```
value={value:[strtrim(SINDGEN(idx+1),2)],set:MAKE_ARRAY(idx+ 1,/LONG,value=1)}
  WIDGET_CONTROL,b,set_value=value
  ENDIF
END
```

```
ELSE:
ENDCASE
END
PRO test
```

```
a=WIDGET_BASE(row=2)
value={value:['MIN','SPEC','DEFAULT','MAX'],set:[1,0,0,0]}
```

```
b=cw_buttons(a,value=value,uvalue='FF',row=1,button_xsize=60
,frame=2,xoffset=0,yoffset=0,button_frame=1)
value={value:['0'],set:[1]}
```

```
b=cw_buttons(a,value=value,uvalue='EF',col=2,/nonexclusive,frame=2,xoffset=20,yoffset=0,button_frame=1)
```

```
d=WIDGET_BUTTON(a,val='done',uval='done')
WIDGET_CONTROL,/realize,a,set_uvalue=b
XMANAGER,'test',a
END
```

regards

Reimar

--

Reimar Bauer

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<http://www.fz-juelich.de/icg/icg1/>

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a IDL library at ForschungsZentrum Juelich
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html

<http://www.fz-juelich.de/zb/text/publikation/juel3786.html>

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read something about linux / windows
<http://www.suse.de/de/news/hotnews/MS.html>

