
Subject: Re: AGAIN: Help: Retrieve the state of radio button
Posted by [Pavel Romashkin](#) on Wed, 21 Apr 1999 07:00:00 GMT
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I personally never use CW_BGROUPE because it is cumbersome to check the state of all buttons, do "where" every time etc. I agree that the way Tri shown is better (I use no GUI Builder and manually code in all the buttons):

```
> w = widget_base(...., /NONEXCLUSIVE) ; for group of non-exclusive
> buttons
> b1 = widget_button(w,....)
> b2 = widget_button(w,....)
```

In the above case I use the following style of coding:

To set up a set of buttons:

```
cb_base = widget_base(main_base, /nonexcl, /column, uvalue=0L)
cb_0 = widget_button(cb_base, value='Name 1', uval=0)
cb_1 = widget_button(cb_base, value='Name 2', uval=1)
cb_2 = widget_button(cb_base, value='Name 3', uval=2)
cb_3 = widget_button(cb_base, value='Name 4', uval=3) ;Continue if desired.
```

```
State = {cb_base:cb_base}
;pass state over to event handling procedure
widget_control, main_base, set_uvalue=State
```

To remember the state of buttons:

```
pro Your_pro_event, ev
widget_control, ev.top, get_uvalue=State
widget_control, ev.id, get_uval=Sender
case Sender of
0: Temp = hc_checkbutton(State.cb_base, sender, ev.select, /WID)
1: Temp = hc_checkbutton(State.cb_base, sender, ev.select, /WID)
2: Temp = hc_checkbutton(State.cb_base, sender, ev.select, /WID)
3: Temp = hc_checkbutton(State.cb_base, sender, ev.select, /WID) ;Continue
if desired.
endcase
```

Then, in any other part of the code that needs to check on the state of, say, Button #0, I do:

```
if hc_checkbutton(State.cb_base, 0, /GET) then ... action for set button
... else $
..... action for not set button .....
```

Certainly, use of first child to store State is more traditional and appropriate, here I put State in the top level base UVALUE for simplicity.

Notice that using UVALUE is not mandatory. Any integer or longword variable can be used to store button states. `hc_checkbox` accepts `/RETURN` and `/VAR` keywords to work on variables and structure fields that are passed as values. Code for `hc_checkbox` is very simple and is available at http://spot.colorado.edu/~romashki/idl/hc_checkbox.pro

I hope this helps.

Cheers,
Pavel
