
Subject: Re: CW_FORM: Can't seem to get SET_VALUE to work
Posted by [Andrew Meigs](#) on Mon, 25 Oct 2004 21:47:53 GMT
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On Mon, 25 Oct 2004 07:40:26 -0700, Lloyd Watkin wrote:

> Hi all,
>
> In advance, thanks for all the wonderful help that everyone always
> passes my way.
>
> I've started to venture into using CW_FORM to make quick forms for a
> program I am writing. I think I have it almost done. I have a couple
> of problems that I need to fix first though.
>
> I have two text fields into which I want to place values that the user
> can edit if they desire. Have placed the SET_VALUE keywords in, but am
> still not getting any values printed there! Any ideas (have posted the
> SHORT code at the end of this post).
>
> Also if anyone could help on getting my checkboxes to line up that
> would be great too.
>
> Thanks
>
> Lloyd Watkin
>
> -----
> pro test3
>
> max_step = 1.0e-1
> min_step = 1.0e-9
>
> desc = [\$
> '0, LABEL, Choose which species to vary:, CENTER', \$
> '1, BASE,, COLUMN=7, FRAME', \$
> '0, BUTTON, H2O|CO2|O3|N2O|CO|CH4|O2,' \$
> + 'ROW, TAG=species1', \$
> '0, BUTTON, NO|SO2|NO2|NH3|HNO3|OH|HF,' \$
> + 'ROW, TAG=species2', \$
> '0, BUTTON, HCl|HBr|HI|ClO|OCS|H2CO|HOCl,' \$
> + 'ROW, TAG=species3', \$
> '0, BUTTON, N2|HCN|CH3Cl|H2O2|C2H2|C2H6|PH3,' \$
> + 'ROW, TAG=species4', \$
> '0, BUTTON, COF2|SF6|H2S|HCOOH|HO2|O|ClONO2,' \$
> + 'ROW, TAG=species5', \$
> '0, BUTTON, NO+|HOBr|C2H4|CH3OH,width=200,' \$
> + 'ROW, TAG=species6', \$

```

> '0, TEXT, , LABEL_LEFT=Maximum step size:,SET_VALUE=max_step,
> WIDTH=20' $
> + 'TAG=maxstep', $
> '0, INTEGER, 0, LABEL_LEFT=Minimum step size:,SET_VALUE=min_step,
> WIDTH=20, TAG=minstep', $
> '1, BASE,, ROW', $
> '0, BUTTON, OK, QUIT,CENTER,' $
> + 'TAG=OK', $
> '2, BUTTON, Cancel, QUIT, CENTER']
>
> a = CW_FORM(desc, /COLUMN)
>
> ;HELP, /STRUCTURE, a
>
> if (a.ok EQ 0) then retall ;User has cancelled the fit
>
> species = [a.species1,a.species2,a.species3,a.species4,a.species5,a.sp ecies6]
> print, species
> max_step = a.maxstep
> min_step = a.minstep
> print, minstep, maxstep
> stop
> end

```

Lloyd,

Without access to idl right now but access to some of my old programs that use cw_form so I might be wrong but here goes:

At your initialization for the text field:

```

> '0, TEXT, , LABEL_LEFT=Maximum step size:,SET_VALUE=max_step,
> WIDTH=20' $
> + 'TAG=maxstep', $

```

You need a comma (,) following the WIDTH=20

Also I would not try to set the value in this step (don't even know if that works with cw_form). I would however put a default value in the blank value field '0, TEXT, **Here** , Label_left=... And then do the following: WIDGET_CONTROL, a, set_value={species1:0, species2:0, species3:0, \$ species4:0, species5:0, max_step:maxstep, minstep:min_step, ...} after the a = cw_form() step. Not sure what the quit/ok button setting should be hence the ... This will initialize all of the fields/droplists to a default of the first element and set your max and min steps.

Hope this helps. In idl 5.3 or so I found that cw_form has a few bugs especially relating to droplist setting. I haven't used it under 5.5 or 6.0 to see if they fixed the bug (I reported it then). My old code uses a modified version of cw_form which I could send you if you find problems

with the droplists.

Andy

Subject: Re: CW_FORM: Can't seem to get SET_VALUE to work

Posted by [andrew.cool](#) on Tue, 26 Oct 2004 00:40:01 GMT

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lloyd@evilprofessor.co.uk (Lloyd Watkin) wrote in message
news:<c3f97ff.0410250640.61eab55e@posting.google.com>...

> Hi all,

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> I've started to venture into using CW_FORM to make quick forms for a

> program I am writing. I think I have it almost done. I have a couple

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> SHORT code at the end of this post).

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> Also if anyone could help on getting my checkboxes to line up that

> would be great too.

>

> Thanks

>

> Lloyd Watkin

Hi Lloyd,

I've re-written your code to use CW_BGROUP (which seems to have a
slight

bug of its own), however I think the code is clearer and easier than
that

god-awful Cw_Form mush...

Andrew

Pro test_species_event,ev

widget_control,ev.id,Get_Uvalue = Uvalue

widget_control,ev.id,Get_Value = Value

Case Uvalue Of

'SPECIES SELECTION' : \$

```
Begin
  If ev.value EQ '' Then Begin
    ; dummy spacer button - now de-sensitised
    return
  Endif Else begin
    print,'Selected species ' + ev.value
  Endelse
End
```

'MAX STEP SIZE' : \$

```
Begin
  max_step_size = ev.value
  print,'New Max Step Size = ',max_step_size
End
```

'MIN STEP SIZE' : \$

```
Begin
  min_step_size = ev.value
  print,'New Min Step Size = ',min_step_size
End
```

'OK' : \$

```
Begin
  Widget_control,ev.top,/Destroy
End
```

'CANCEL' : \$

```
Begin
  Widget_control,ev.top,/Destroy
End
```

ELSE : Begin

```
  Message,'Invalid Uvalue : ' + string(uvalue)
End
```

End ; of Case

End

;.....

pro test_species

; Revamp of Lloyd Watkins post. A.D. Cool DSTO Adelaide, Oz

max_step = 1.0e-1

min_step = 1.0e-9

species1 = ['H2O','CO2','O3','N2O','CO','CH4','O2']

species2 = ['NO','SO2','NO2','NH3','HNO3','OH','HF']

species3 = ['HCl','HBr','HI','ClO','OCS','H2CO','HOCl']

species4 = ['N2','HCN','CH3Cl','H2O2','C2H2','C2H6','PH3']

species5 = ['COF2','SF6','H2S','HCOOH','HO2','O','ClONO2']

;species6 = ['NO+','HOBr','C2H4','CH3OH']

; Hmmm. Needs padding out with dummy buttons - incorrect behaviour -
bug?

; I would have thought that the first 5 columns should all fill up
with

; 7 buttons?

species6 = ['NO+','HOBr','C2H4','CH3OH',' ',' ',' ']

btn_vals = [species1,species2,species3,species4,species5,species6]

TLB = Widget_base(/col,Title='Species test')

base1 = Widget_base(TLB,/row,/frame)

btn_grp = Cw_BGROUP(base1,btn_vals,Button_uvalue=btn_vals,col=6,/NONEX CLUSIVE,\$
IDS =
species_ids,/NO_Release,Uvalue='SPECIES SELECTION')

base2 = Widget_base(TLB,/Col,/Frame)

Max_step_fd = \$
CW_field(base2,/Return_events,/Floating,Title='Maximum Step Size',\$
Value = max_step,Uvalue='MAX STEP SIZE')

Min_step_fd = \$
CW_field(base2,/Return_events,/Floating,Title='Minimum Step Size',\$
Value = min_step,Uvalue='MIN STEP SIZE')

base3 = Widget_base(TLB,/row,/Frame)

OK_id = Widget_Button(base3,Value='OK',Uvalue='OK')

```
Cancel_id = Widget_Button(base3,Value='Cancel',Uvalue='CANCEL')
```

```
widget_Control,tlb,/real
```

```
; de-sensitise dummy spacer buttons - possible bug in layout of  
CW_BGROUP?
```

```
widget_control,species_ids(39),Sensitive=0  
widget_control,species_ids(40),Sensitive=0  
widget_control,species_ids(41),Sensitive=0
```

```
Xmanager, 'test_species', TLB
```

End

Subject: Re: CW_FORM: Can't seem to get SET_VALUE to work
Posted by [lloyd](#) on Tue, 26 Oct 2004 10:18:58 GMT
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Andrew,

That's really great.

One question being, how do I get the data out?

I'm assuming it's something along the lines of
widget_control,species,uvalue=species1 but I haven't had much contact
with all this widget stuff so have no idea (only looked at a structure
for the first time yesterday!).

Thanks

Lloyd

Subject: Re: CW_FORM: Can't seem to get SET_VALUE to work
Posted by [David Fanning](#) on Tue, 26 Oct 2004 11:53:02 GMT
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Lloyd Watkin writes:

> One question being, how do I get the data out?

One thing at a time, Lloyd, one thing at a time!

- > I'm assuming it's something along the lines of
- > widget_control,species,uvalue=species1 but I haven't had much contact
- > with all this widget stuff so have no idea (only looked at a structure
- > for the first time yesterday!).

Oh, dear. Lot's to learn this week, then. :-)

I think what you are looking for is a way to write what is sometimes called a popup or modal dialog widget. Something you can call to collect information from the user and return it to you.

Here is an example of a very simple one:

http://www.dfanning.com/widget_tips/popup.html

I think you will find the code easy to extend to your needs. But, if not, then just keep asking questions. :-)

Cheers,

David

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