
Subject: auto_wid_mng and 'Invalid widget identifier'
Posted by [dunstan8986](#) on Fri, 14 Dec 2012 21:13:12 GMT
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I'm trying to write some ENVI/IDL code to prompt the user for a few values and do some computation on those values after they've all been entered. The GUI looks fine and everything works as I expect until I click on OK & try to get values out of the widgets. At that point I get an 'Invalid widget identifier' message.

In the real code I prompt for two input files, one of them an image file from which I get & display band info, and have the user pick one of the bands. The user also enters a floating-point value, and the name of an output file. The simplified code below exhibits all the errors I'm encountering, however.

----- start code -----

```
; Respond to the users' clicking the 'Browse...' button.
PRO pickFile, event
; Get the ID of the button widget
widget_control, event.id, get_uvalue=textFieldId
; Get the current filename.
widget_control, textFieldId.textfieldId, get_value=oldfile
; Get the new filename
newfile = dialog_pickfile(file=oldfile, filter='*.zip', /must_exist, $
    title='Pick .zip file')
if newfile ne "" then begin
    ; Update the filename string widget.
    widget_control, textFieldId.textfieldId, set_value=newfile
end
end

; My menu item's main routine
PRO mycode, ev
    compile_opt idl2, hidden
    tlb = widget_auto_base(title='Sample Code')

; filename entry bits
file_base = widget_base(tlb, /row)
file_label = widget_label(file_base, /align_left, value='.zip file: ')
file_entry = widget_string(file_base, uvalue='file_entry')
file_btn = widget_button(file_base, event_pro='pickFile', value='Browse...', $
    uvalue={textFieldId : file_entry})

; floating-point value entry bits.
```

```

param_base = widget_base(tlb, /row)
param_slider = widget_slider(param_base, /auto_manage, ceil=2., max=50, min=0,
scale=1./50., $
    uvalue='param', title='Param value 0..2', dt=4, value=0.4)

; Let 'er rip!
result = auto_wid_mng(tlb)

print, 'Result: ', result

; If I clicked on "OK", at this point result only has two fields: PARAM and
; ACCEPT. No mention of FILE_ENTRY. Ok, I need to go get it from the
; widget itself...

widget_control, file_entry, get_value=filename

;... and I get an 'Invalid widget identifier'. Apparently auto_wid_mng
; destroys my widget before I can get anything out of it?

END

```

----- end code -----

I haven't shown what I did to make it show up in the ENVI menu but it does show up, and looks fine up until I click OK.

To further confuse me, if I comment out the param_base & param_slider parts I never even get my dialog box. Instead I get a stack trace saying:

```

Expression must be a structure in this context: INFO.
Execution halted at: AUTO_WID_MNG
      MYCODE NN c:\path\to\my\source\code\mycode.pro
      ...more stack trace...

```

(where NN is the line number of the call to auto_wid_mng)

I'm using ENVI 8.0.1 on Windows XP.

I'm new at ENVI+IDL but have been writing Java, C++, etc for more years than I care to remember. Any clues as to where I've gone wrong?

Thanks!

Al
