
Subject: Widget_Control

Posted by [dean](#) on Tue, 28 Jun 1994 22:27:21 GMT

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I am attempting to use WIDGET_CONTROL to pass a structure to a widget _EVENT PRO. However, I am getting an invalid event id. I am working with IDL for Windows 3.5.1.

My goal here is to have two separate window displays with the cursor dumping from either window 1 or window 2.

Kelly Dean
CSU/CIRA

===== Error =====

```
IDL> mine
% WIDGET_EVENT: Invalid widget identifier: 33.
% Execution halted at KD_DISPLAY_EVEN <F:\IDL\TRAINING\MINE.PRO(25)>
(WIDGET_EVENT).
%   Called from XMANAGER <E:\IDL35\LIB\WIDGETS\XMANAGER.PRO(458)>.
%   Called from MINE <F:\IDL\TRAINING\MINE.PRO( 110)>.
%   Called from $MAIN$ .
```

===== Mine.pro

```
=====
FUNCTION Read_Image_Data, file, xsize, ysize

IF N_Params() NE 3 THEN $
    Message, 'Must call Read_Image_Data with three parameters.'

Openr, unit, file, /Get_LUN
image = BytArr(xsize,ysize)
ReadU, unit, image
Free_LUN, unit
Return, image
END

PRO KD_DISPLAY_EVENT, event

Widget_Control, event.id, GET_UVALUE = eventval
WIDGET_CONTROL, event.top, GET_UVALUE = WDRAWstr

;HELP, /STRUCTURE, WDRAWstr

CASE eventval OF
    "DRAW_WIN_EVENT" : BEGIN
        WSET, WDRAWSTR.Win_id
```

```

WSHOW, WDRAWSTR.Win_id
pxvnt = WIDGET_EVENT(WDRAWSTR.Win_id)
HELP, /STRUCTURE, pxvnt
WHILE (pxvnt.press NE 4 ) DO BEGIN
  pxvnt = WIDGET_EVENT(WDRAWSTR.Win_id)
  x = pxvnt.x
  y = pxvnt.y
  PRINT, ' Win >',wid,' X >', x,' Y >',y
ENDWHILE
END

```

```

ENDCASE
END

```

```

PRO KD_DISPLAY, Parent, name, image, xsize, ysize

```

```

wBase = WIDGET_BASE(title = name, GROUP_LEADER = Parent)
wDraw = WIDGET_DRAW(wBase, $
  UVALUE = 'DRAW_WIN_EVENT', $
  XSIZE=xsize, YSIZE=ysize, $
  /MOTION_EVENTS, $
  /BUTTON_EVENTS, $
  RETAIN = 2)

```

```

WIDGET_CONTROL, wBase, /REALIZE

```

```

WIDGET_CONTROL, wDraw, GET_VALUE = Win

```

```

WSET, Win
WSHOW, Win
TV, image

```

```

WDRAWstr = { WDRAWSTR, Par_id:Parent, Win_id:Win }

```

```

XManager, 'KD_DISPLAY' , wBase

```

```

WIDGET_CONTROL, wBase, SET_UVALUE = WDRAWstr

```

```

END

```

```

PRO mine_event, event

```

```

  WIDGET_CONTROL, Event.Id, GET_UVALUE = Ev

```

```

  CASE Ev OF

```

```

    "IMAGE1": BEGIN

```

```
        name = 'ctscan.dat'
        xsize = 256
        ysize = 256
        image = Read_Image_Data(Filepath(Subdir='images', name), xsize,
ysize)
        KD_DISPLAY, Event.top, name, image, xsize, ysize
    END
```

```
"IMAGE2": BEGIN
    name = 'galaxy.dat'
    xsize = 256
    ysize = 256
    image = Read_Image_Data(Filepath(Subdir='images', name), xsize,
ysize)
    KD_DISPLAY, Event.top, name, image, xsize, ysize
    END
```

```
"QUIT": WIDGET_CONTROL, Event.Top, /DESTROY
```

```
    ENDCASE
END
```

```
PRO MINE
```

```
wBase = WIDGET_BASE(/COLUMN)
wBase2 = WIDGET_BASE(wBase, /ROW)
```

```
wButton = WIDGET_BUTTON(wBase2, VALUE="Image1", UVALUE="IMAGE1")
wButton = WIDGET_BUTTON(wBase2, VALUE="Image2", UVALUE="IMAGE2")
```

```
wBase2 = WIDGET_BASE(wBase, /ROW)
```

```
wLabel = WIDGET_LABEL(wBase2, VALUE="Cursor position:", /FRAME)
wEdit = WIDGET_TEXT(wBase2, VALUE='0,0', EDITABLE=0)
```

```
wButton = WIDGET_BUTTON(wBase, VALUE="Quit", UVALUE="QUIT")
```

```
WIDGET_CONTROL, wBase, /REALIZE
```

```
    XMANAGER, "MINE", wBase
END
```

Subject: Re: Widget_Control
Posted by [8015](#) on Wed, 29 Jun 1994 16:40:43 GMT
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In article <Cs4p1L.1st6@yuma.acns.colostate.edu>,

In article <Cs4p1L.1st6@yuma.acns.colostate.edu>, <dean%phobos.dnet@sirius.cira.colostate.edu> wrote:

```
>
> PRO KD_DISPLAY_EVENT, event
>
> Widget_Control, event.id, GET_UVALUE = eventval
> WIDGET_CONTROL, event.top, GET_UVALUE = WDRAWstr
>
> ;HELP, /STRUCTURE, WDRAWstr
>
> CASE eventval OF
>     "DRAW_WIN_EVENT" : BEGIN
>         WSET, WDRAWSTR.Win_id
>         WSHOW, WDRAWSTR.Win_id
>         pxvnt = WIDGET_EVENT(WDRAWSTR.Win_id)
```

Here it is: WDRAWSTR.Win_id is the ID of the graphical window, not the widget ID of the graphical widget. By the way, if you have a problem like this try to locate the position where the error occurs first before posting the whole program. That makes it easier to see what's happening.

Frank

--

```
 / / /   Frank Robijn   Internet: Robijn@Strw.LeidenUniv.NL
 /___ /___/   Sterrewacht Leiden   Bitnet: Robijn@HLERUL51
 / / \   Phone (31) 71 275841   Local: Robijn@HL628
 / / \   Fax : (31) 71 275819   Snail: P.O.Box 9513, 2300 RA Leiden,
                               The Netherlands
```

Subject: Re: Widget_Control

Posted by [scollick](#) on Wed, 29 Jun 1994 23:25:08 GMT

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Kelly Dean (dean@phobos.cira.colostate.edu) wrote:

```
> I am attempting to use WIDGET_CONTROL to pass a structure to a widget
> _EVENT PRO. However, I am getting an invalid event id. I am working with
> IDL for Windows 3.5.1.
```

```
> My goal here is to have two separate window displays with the cursor
> dumping from either window 1 or window 2.
```

[program deleted]

I have included below my fix to the program. You do not need to use WIDGET_EVENT to get the x and y values. They are passed along with the WIDGET_DRAW structure. I tried to mark the parts I changed. Let me know if there are problems or if you have any questions.

--Keith A. Scollick

```
BEGIN file.pro -----
FUNCTION Read_Image_Data, file, xsize, ysize

IF N_Params() NE 3 THEN $
    Message, 'Must call Read_Image_Data with three parameters.'

Openr, unit, file, /Get_LUN
image = BytArr(xsize,ysize)
ReadU, unit, image
Free_LUN, unit
Return, image
END

PRO KD_DISPLAY_EVENT, event

Widget_Control, event.id, GET_UVALUE = eventval
WIDGET_CONTROL, event.handler, GET_UVALUE = WDRAWstr

CASE eventval OF
    "DRAW_WIN_EVENT" : BEGIN
        WSET, WDRAWSTR.Win_id
        WSHOW, WDRAWSTR.Win_id
        x = event.x ; *****
        y = event.y ; *****
        ;PRINT, ' X >', x, ' Y >', y
        xy = strtrim(x)+' '+strtrim(y) ; *****
        widget_control,wdrawstr.place,set_value=xy ; *****
    END
ENDCASE
END

PRO KD_DISPLAY, Parent, name, image, xsize, ysize, wedit ; *****

wBase = WIDGET_BASE(title = name, GROUP_LEADER = Parent)
wDraw = WIDGET_DRAW(wBase, $
    UVALUE = 'DRAW_WIN_EVENT', $
    XSIZE=xsize, YSIZE=ysize, $
    /MOTION_EVENTS, $
    /BUTTON_EVENTS, $
    RETAIN = 2)
```

```
WIDGET_CONTROL, wBase, /REALIZE
```

```
WIDGET_CONTROL, wDraw, GET_VALUE = Win
```

```
WSET, Win
```

```
WSHOW, Win
```

```
TV, image
```

```
WDRAWstr = { WDRAWSTR, Par_id:Parent, Win_id:Win, place:wedit } ; *****  
XManager, 'KD_DISPLAY' , wBase
```

```
WIDGET_CONTROL, wBase, SET_UVALUE = WDRAWstr
```

```
END
```

```
PRO mine_event, event
```

```
    widget_control, event.top, get_uvalue=wedit ; *****  
    WIDGET_CONTROL, Event.Id, GET_UVALUE = Ev
```

```
CASE Ev OF
```

```
"IMAGE1": BEGIN
```

```
    name = 'ctscan.dat'
```

```
    xsize = 256
```

```
    ysize = 256
```

```
    image = Read_Image_Data(Filepath(Subdir='images', name), $  
        xsize, ysize)
```

```
    KD_DISPLAY, Event.top, name, image, xsize, ysize, wedit ; **
```

```
    END
```

```
"IMAGE2": BEGIN
```

```
    name = 'galaxy.dat'
```

```
    xsize = 256
```

```
    ysize = 256
```

```
    image = Read_Image_Data(Filepath(Subdir='images', name), $  
        xsize, ysize)
```

```
    KD_DISPLAY, Event.top, name, image, xsize, ysize, wedit ; **
```

```
    END
```

```
"QUIT": WIDGET_CONTROL, Event.Top, /DESTROY
```

```
ENDCASE
```

```
if widget_info(event.top, /valid) then $ ; *****
```

```
    widget_control, event.top, set_uvalue=wedit ; *****
```

END

PRO MINE

```
wBase = WIDGET_BASE(/COLUMN)
wBase2 = WIDGET_BASE(wBase, /ROW)
```

```
wButton = WIDGET_BUTTON(wBase2, VALUE="Image1", UVALUE="IMAGE1")
wButton = WIDGET_BUTTON(wBase2, VALUE="Image2", UVALUE="IMAGE2")
```

```
wBase2 = WIDGET_BASE(wBase, /ROW)
```

```
wLabel = WIDGET_LABEL(wBase2, VALUE="Cursor position:", /FRAME)
wEdit = WIDGET_TEXT(wBase2, VALUE='0,0', EDITABLE=0)
```

```
wButton = WIDGET_BUTTON(wBase, VALUE="Quit", UVALUE="QUIT")
```

```
WIDGET_CONTROL, wBase, /REALIZE
```

```
widget_control,wbase, set_uvalue=wedit ; *****
```

```
XMANAGER, "MINE", wBase
```

END

END file.pro -----

Subject: Re: widget_control
Posted by [davidf](#) on Wed, 11 Aug 1999 07:00:00 GMT
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R.Bauer (R.Bauer@fz-juelich.de) writes:

> How can I set by widget_control the column number of a widget_base ?

No can do, I don't believe. :-(

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting
Phone: 970-221-0438 E-Mail: davidf@dfanning.com
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Toll-Free IDL Book Orders: 1-888-461-0155