
Subject: WIDGET ID FINDING FUNCTION

Posted by [algosat](#) on Fri, 24 Sep 2004 01:42:28 GMT

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Im not sure if I am allowed to actually post code here but anyhow.

The following code is a function for finding widget ids of realized widgets. Very handy as you dont have to carry around a pointer or what-not to all of your pop-up windows you get it on demand.

Cheers
Andrew

```
FUNCTION FIND_WID, UNAME, NOMSG=NOMSG
; NAME:
; FIND_WID
; PURPOSE:
;   To find the widget ID of the widget with uname, where uname is a
string
; passed in by the user.
; CATEGORY:
; Widget Utility
; CALLING SEQUENCE:
; RESULT=FIND_WID(UNAME)
; KEYWORDS:
; NOMSG: Use this keyword to to suppress dialog_messge pop-ups
; INPUTS:
; UNAME: A string with the user name of the widget whose ID is sought.
; OUTPUTS:
; The widget ID, if found, of the widget with the user name uname.
; If no widget ID is found a zero is returned to the user.
; RESTRICTIONS:
; The widget must be realized, and managed by xmanager
; EXAMPLE:
;1) you have 2 popups open and you want to use the set
; routine on 1 based on the state in the other, and you are
; in your TLB event handler.
;
; test_id=find_wid('state_wid')
; if test_id ne 0 then popup_set,test_id,state
;
;2) you are using a CW that is a second popup from the main
; TLB, and you have told xmanager that the main TLB
; event handler is to be used. So unless you have passed the
; state information, or a pointer to it, from the tlb->CW->TLB event
handler
; you will have lost the tlb id(well I always did), and hence access
; to the state info. So now you just do the following
```

```

;
; test_id=find_wid('main_tlb_uname_or_state_widget_uname')
; if test_id ne 0 then
widget_control,(test_id,/child),get_uvalue=state
;
; The above assumes you are using the first child widget uvalue
; to store the state info.
;
; MODIFICATION HISTORY:
; Written by: Andrew P. Rodger, September 24 2004
test_ids=widget_info(/managed)
;if only one result make sure its not zero
if (n_elements(test_ids) eq 1) then begin
  if (test_ids eq 0) then begin
    IF NOT KEYWORD_SET(NOMSG) THEN mess=dialog_message('No IDL
managed Widgets are running!'/error)
    ret=0L
  endif else begin
    id=widget_info(test_ids,find_by_uname=uname)
    if id eq 0 then begin
      IF NOT KEYWORD_SET(NOMSG) THEN mess=dialog_message('No
widgets with the uname '+uname+' could be found'/error)
      ret=0L
    endif else begin
      ret=long(id)
    endelse
  endif else begin
;see what windows are opened
ids=lonarr(n_elements(test_ids))
for i=0,n_elements(test_ids)-1 do begin
  ids[i]=widget_info(test_ids[i],find_by_uname=uname)
endfor
  nz=where(ids ne 0,count)
  if (count gt 0) then begin
    ret=long(ids[nz[0]]) ;this assumes that only one value is
going to be found
;who knows maby there are more: put in
warning
  endif else begin
    IF NOT KEYWORD_SET(NOMSG) THEN mess=dialog_message('No
widgets with the uname '+uname+' could be found'/error)
    ret=0L
  endelse
endelse
return,ret
end

```

Subject: Re: WIDGET ID FINDING FUNCTION
Posted by [R.Bauer](#) on Sun, 03 Oct 2004 07:28:01 GMT
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Andrew Rodger wrote:

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>
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> what-not to all of your pop-up windows you get it on demand.
>
> Cheers
> Andrew

Dear Andrew

you could post code here if it's not a whole library. You could put it on your website or on the RSI site and post a link.

The PURPOSE of this function is quite the same as you used for yours.
id=WIDGET_INFO(event.top,FIND_BY_UNAME='TEXT')
you should give here more details, what's the differences are.

from the online help:

WIDGET_INFO:

FIND_BY_UNAME This keyword applies to all widgets. Set this keyword to a UNAME value that will be searched for in the widget hierarchy, and if a widget with the given UNAME is in the hierarchy, its ID is returned. The search starts in the hierarchy with the given widget ID and travels down, and this keyword returns the widget ID of the first widget that has the specified UNAME value. If a widget is not found, 0 is returned.

cheers

Reimar

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> FUNCTION FIND_WID, UNAME, NOMSG=NOMSG
> ; NAME:
> ; FIND_WID
> ; PURPOSE:
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> ; CATEGORY:

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> ; Widget Utility
> ; CALLING SEQUENCE:
> ;   RESULT=FIND_WID(UNAME)
> ; KEYWORDS:
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> ; INPUTS:
> ;   UNAME: A string with the user name of the widget whose ID is sought.
> ; OUTPUTS:
> ;   The widget ID, if found, of the widget with the user name uname.
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> handler
> ;   you will have lost the tlb id(well I always did), and hence access
> ;   to the state info. So now you just do the following
> ;
> ;   test_id=find_wid('main_tlb_uname_or_state_widget_uname')
> ;   if test_id ne 0 then
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> ;   Written by:   Andrew P. Rodger, September 24 2004
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>   if (test_ids eq 0) then begin
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> managed Widgets are running!'/error)
>     ret=0L
>   endif else begin
>     id=widget_info(test_ids,find_by_uname=uname)
>     if id eq 0 then begin
>       IF NOT KEYWORD_SET(NOMSG) THEN mess=dialog_message('No

```

```

> widgets with the uname '+uname+' could be found',/error)
>     ret=0L
>     endif else begin
>         ret=long(id)
>     endelse
> endelse
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> ;see what windows are opened
> ids=lonarr(n_elements(test_ids))
> for i=0,n_elements(test_ids)-1 do begin
>     ids[i]=widget_info(test_ids[i],find_by_uname=uname)
> endfor
>     nz=where(ids ne 0,count)
>     if (count gt 0) then begin
>         ret=long(ids[nz[0]]) ;this assumes that only one value is
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> warning
>     endif else begin
>         IF NOT KEYWORD_SET(NOMSG) THEN mess=dialog_message('No
> widgets with the uname '+uname+' could be found',/error)
>         ret=0L
>     endelse
> endelse
> return,ret
> end

```

--

Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de
<http://www.fz-juelich.de/icg/icg-i/>

=====

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

Subject: Re: WIDGET ID FINDING FUNCTION
Posted by [algotat](#) on Mon, 04 Oct 2004 04:23:22 GMT
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```

> The PURPOSE of this function is quite the same as you used for yours.
> id=WIDGET_INFO(event.top,FIND_BY_UNAME='TEXT')
> you should give here more details, what's the differences are.
>

```

The main difference between the posted code and the WIDGET_INFO function is that the user is not required to specify the event.top id only the uname of the widget. I wrote this because I kept losing my

event.top under a set of various circumstances. Also it did not matter where and when you ran the function. You could run it in a pop-up that had no connection to the main TLB and still find and pass information.

It worked, I thought it was cool, but in the end I took D. Fannings advice and took a closer look at pointers. I still think its a handy little tool though.

Subject: Re: WIDGET ID FINDING FUNCTION

Posted by [R.Bauer](#) on Mon, 04 Oct 2004 13:17:29 GMT

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> It worked, I thought it was cool, but in the end I took D. Fannings

> advice and took a closer look at pointers. I still think its a handy

> little tool though.

It is cool!

cheers

Reimar
