Subject: Listing all top-level widgets
Posted by James Tappin on Wed, 26 Jan 2000 08:00:00 GMT
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Is anyone aware of any way to generate a list of all the currently realized top-level widgets (or better still all the realized modal top-level widgets but getting that once provided with a list of all tlb's is easy)?

```
The only ways I can think of are:

1)

for j =0I, largest_long do begin
    if (widget_info(j,/valid)) then begin
    if (widget_info(j, /parent) eq 0 and widget_info(j,/modal)) then$
    imodal = 1
    endif
    endif
endfor
```

Which would take forever to run

- 2) Require that any modal top-level base deposit it's ID in a common block
- 3) Dig out where the information is stored within xmanager (and hope that there are no modal widgets that don't use xmanager

Or maybe there's a more elegant solution altogether to this problem, namely: I have a menu that pops up when a file search fails, and it is possible that the routine that called the file search was triggered from a modal menu, but it's about half-a-dozen calls away so passing a group-leader ID down the calling chain isn't really practical.

Subject: Re: Listing all top-level widgets
Posted by davidf on Thu, 27 Jan 2000 08:00:00 GMT
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William Thompson (thompson@orpheus.nascom.nasa.gov) writes:

- > It used to be the case that modal widgets were allowed to have child widgets.
- > However, this capability went away when RSI decided to move the /MODAL keyword
- > from the XMANAGER call to the call to WIDGET_BASE. This severely restricted

- > the usefulness of modal widgets, and we've had to emulate the /MODAL
- > functionality by having the modal-like widget desensitize its caller, and then
- > remember to resensitize it when it's done.

I've got bad news for you, Bill. On Windows NT at least, desensitized widgets *still* generate events. Although if you are lucky the desensitized look will discourage users from clicking all your controls just to see what happens. :-)

- > We also needed to add some funny
- > business with a timer widget in the calling routine so that it would know that
- > the modal-like widget was done, and it could do something with the answer.

Yuck. I normally write Modal widgets as functions that will return whatever information I am looking for when the widget is destroyed.

- > It's been a while since I've tried it, but I believe that a modal widget can
- > have a modal child widget. Perhaps that would solve James's problem?

Well, now you mention it, I have a program running from a modal widget and it *does* seem to generate events--much to my consternation. These things just seem to have no respect for learned opinion. :-(

Another item for the To Do list, I guess.

- > Personally, I'm very disappointed with the restrictions of the present
- > implementation of modal widgets compared with what we used to be able to do.
- > From now on, unless the widget is extremely simple, I'll be avoiding modal
- > widgets.

I'm big on non-modal object widgets, but--of course--they are too difficult to write unless you are getting paid the big bucks. :-)

Cheers.

David

David Fanning, Ph.D.

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Coyote's Guide to IDL Programming: http://www.dfanning.com/

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Subject: Re: Listing all top-level widgets

Posted by thompson on Thu, 27 Jan 2000 08:00:00 GMT

davidf@dfanning.com (David Fanning) writes:

- > James Tappin (sjt@star.sr.bham.ac.uk) writes:
- >> Is anyone aware of any way to generate a list of all the currently realized
- >> top-level widgets (or better still all the realized modal top-level widgets
- >> but getting that once provided with a list of all tlb's is easy)?
- > The idea that comes immediately to mind for me is to write
- > an object that "checks out" top-level base widgets. But
- > objects are so incredibly difficult to write that you
- > practically have to be a genus to write one. :-)
- >> 2) Require that any modal top-level base deposit it's ID in a common block
- >> 3) Dig out where the information is stored within xmanager (and hope that
- >> there are no modal widgets that don't use xmanager
- >>
- >> Or maybe there's a more elegant solution altogether to this problem, namely:
- >> I have a menu that pops up when a file search fails, and it is possible that
- >> the routine that called the file search was triggered from a modal menu, but
- >> it's about half-a-dozen calls away so passing a group-leader ID down the
- >> calling chain isn't really practical.
- > I think one or the other of us is confused about what "modal"
- > means. I am certain that any widget program "triggered"
- > by a button from a modal widget is--almost by definition--
- > guaranteed NOT to generate events itself. At least I've
- > never gotten it to work.

David:

It used to be the case that modal widgets were allowed to have child widgets. However, this capability went away when RSI decided to move the /MODAL keyword from the XMANAGER call to the call to WIDGET_BASE. This severely restricted the usefulness of modal widgets, and we've had to emulate the /MODAL functionality by having the modal-like widget desensitize its caller, and then remember to resensitize it when it's done. We also needed to add some funny business with a timer widget in the calling routine so that it would know that the modal-like widget was done, and it could do something with the answer.

For a while we were able to use the old style of modal widgets in IDL versions 5.1 and 5.2 with a slightly hacked version of xmanager.pro supplied to us by RSI, but this had to be abandoned with IDL version 5.3. I think that we have everything working now in v5.3, but there may still be something lurking somewhere in our code that we haven't run into yet.

It's been a while since I've tried it, but I believe that a modal widget can

have a modal child widget. Perhaps that would solve James's problem?

Personally, I'm very disappointed with the restrictions of the present implementation of modal widgets compared with what we used to be able to do. From now on, unless the widget is extremely simple, I'll be avoiding modal widgets.

William Thompson

Subject: Re: Listing all top-level widgets
Posted by Liam E. Gumley on Fri, 28 Jan 2000 08:00:00 GMT
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David Fanning <davidf@dfanning.com> wrote in message news:MPG.12fa2fc4c60fed3989a01@news.frii.com...

> William Thompson (thompson@orpheus.nascom.nasa.gov) writes:

>

- >> It used to be the case that modal widgets were allowed to have child widgets.
- >> However, this capability went away when RSI decided to move the /MODAL keyword
- >> from the XMANAGER call to the call to WIDGET_BASE. This severely restricted
- >> the usefulness of modal widgets, and we've had to emulate the /MODAL
- >> functionality by having the modal-like widget desensitize its caller, and then
- >> remember to resensitize it when it's done.

_

- > I've got bad news for you, Bill. On Windows NT at least, desensitized widgets
- > *still* generate events. Although if you are lucky the desensitized look will
- > discourage users from clicking all your controls just to see what happens.

:-)

Strange...

I just tried the following program in IDL 5.3 under Windows 98:

PRO WHELLO_EVENT, EVENT widget_control, event.id, get_uvalue=uvalue if (uvalue eq 'OK') then print, 'OK event detected' END

PRO WHELLO, SENSITIVE=SENSITIVE

;- Create widgets base = widget_base(/column, xoffset=300, yoffset=300) label = widget_label(base, value='Hello world')
button = widget_button(base, value='OK', uvalue='OK')
widget_control, base, /realize
widget_control, button, sensitive=keyword_set(sensitive)

;- Start event manager xmanager, 'whello', base

END

When I run this program with the button de-sensitized, nothing happens when I click on the button, e.g.

IDL> whello

However when the button is sensitized, it generates events as expected:

IDL> whello, /sensitive

Cheers,

Liam.

http://cimss.ssec.wisc.edu/~gumley

Subject: Re: Listing all top-level widgets
Posted by davidf on Sat, 29 Jan 2000 08:00:00 GMT
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Liam Gumley (Liam.Gumley@ssec.wisc.edu) writes:

- > Strange...
- > I just tried the following program in IDL 5.3 under Windows 98:

>

- > When I run this program with the button de-sensitized, nothing happens when
- > I click on the button, e.g.

_

> However when the button is sensitized, it generates events as expected:

Whoops! Yes, this behavior has been fixed in IDL 5.3! Good job, RSI.

Cheers,

David

--

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Subject: Re: Listing all top-level widgets

Posted by davidf on Mon, 31 Jan 2000 08:00:00 GMT

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William Thompson (thompson@orpheus.nascom.nasa.gov) writes:

> davidf@dfanning.com (David Fanning) writes:

>

- >> Well, now you mention it, I have a program running from
- >> a modal widget and it *does* seem to generate events--much
- >> to my consternation. These things just seem to have no respect
- >> for learned opinion. :-(

- > Your consternation would be my delight. ;^) I've never understood why modal
- > widgets are no longer supposed to have child widgets.

Uh, well, on further inquiry it turned out to be programmer error. "Children" of modal widgets CANNOT generate events.

Sorry for the confusion.

David

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Subject: Re: Listing all top-level widgets Posted by thompson on Mon, 31 Jan 2000 08:00:00 GMT

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davidf@dfanning.com (David Fanning) writes:

- > Well, now you mention it, I have a program running from
- > a modal widget and it *does* seem to generate events--much
- > to my consternation. These things just seem to have no respect
- > for learned opinion. :-(

Your consternation would be my delight. ;^) I've never understood why modal widgets are no longer supposed to have child widgets.

Cheers,

Bill Thompson