
Subject: Re: 'remote control' for widgets?

Posted by [David Burridge](#) on Mon, 16 Dec 2002 13:03:46 GMT

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Hi Sebastian,

Have you considered using the "Send_Event" keyword to Widget_Control? You'll have to build the event structure, but it would do exactly what you want.

For example, assuming your event below is a button (simplest example:-) you could:

```
Widget_Control, myWidget, Set_Value={ID:myWidget, TOP:myTLB, HANDLER:0L,
SELECT:1L}
```

If you don;t know the ID of the top-level base (myTLB), you *could* use Widget_Info to find it I guess, but the best would be to pass it through.

Does this help?

Dave

--

David Burridge

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<s@visita2.die.upm.es> wrote in message

news:Pine.LNX.4.44.0212161243430.3160-100000@visita2.die.upm.es...

> Hi all,

>

> I try to progammatically set values of widgets like sliders or checkboxes.

> When I use "WIDGET_CONTROL,myWidget,SET_VALUE=myValue", only the widget gets changed, but the appropriate event is not generated.

>

> What I am looking for is a technique taht allows me to change the value of

> a widget and generates the event that would have been generated if I

> had changed the widget using the mouse or keyboard.

>

> Thanks for all tips,

>

> Sebastian

>

Outgoing mail is certified Virus Free.

Subject: Re: 'remote control' for widgets?
Posted by [David Fanning](#) on Mon, 16 Dec 2002 13:10:05 GMT
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s@visita2.die.upm.es (s@visita2.die.upm.es) writes:

- > I try to programmatically set values of widgets like sliders or checkboxes.
- > When I use "WIDGET_CONTROL,myWidget,SET_VALUE=myValue", only the widget
- > gets changed, but the appropriate event is not generated.
- >
- > What I am looking for is a technique taht allows me to change the value of
- > a widget _and_ generates the event that would have been generated if I
- > had changed the widget using the mouse or keyboard.

Widget_Control, myWidget, Send_Event=thisEventStruct

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: 'remote control' for widgets?
Posted by [s\[1\]](#) on Mon, 16 Dec 2002 15:35:09 GMT
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Hi Dave & David,

thanks for the tip - I got it working now, the solution is:

- a) "WIDGET_CONTROL, myWidget, SET_VALUE=myValue" to set the slider/button/whatever
- b) "WIDGET_CONTROL, myWidget, SEND_EVENT={ID:myWidget, TOP:myBase, HANDLER:0L,VALUE:myValue}" to create the event so that all the stuff in the event handler gets called.

That's quite cumbersome, but it works, although I would prefer a solution like

WIDGET_CONTROL, myWidget, SET_VALUE=myValue, /CREATE_EVENT

that does the event creation automagically.

Btw, neither the "Using IDL" nor the Building IDL Apps" manual for IDL 5.4 does mention the word "SENT_EVENT"...

Best regards,

Sebastian

Subject: Re: 'remote control' for widgets?

Posted by [David Fanning](#) on Mon, 16 Dec 2002 15:56:17 GMT

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s@visita2.die.upm.es (s@visita2.die.upm.es) writes:

> Btw, neither the "Using IDL" nor the Building IDL Apps"
> manual for IDL 5.4 does mention the word "SENT_EVENT"...

You are reading the wrong books. :-)

Cheers,

David

--

David W. Fanning, Ph.D.

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Subject: Re: 'remote control' for widgets?

Posted by [Pavel A. Romashkin](#) on Mon, 16 Dec 2002 21:46:25 GMT

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We all dislike the lack of accuracy in IDL documentation, but, to give RSI some justice, SEND_EVENT is documented in the online help. A quick search immediately finds it in the WIDGET_CONTRL section.

Cheers,

Pavel

s@visita2.die.upm.es wrote:

>

>

> Btw, neither the "Using IDL" nor the Building IDL Apps"

> manual for IDL 5.4 does mention the word "SENT_EVENT"...

>

Subject: Re: 'remote control' for widgets?
Posted by [MKatz843](#) on Tue, 17 Dec 2002 01:10:18 GMT
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> Btw, neither the "Using IDL" nor the Building IDL Apps"
> manual for IDL 5.4 does mention the word "SENT_EVENT"...

That's because it's "SEND_EVENT"

M. Katz

Subject: Re: 'remote control' for widgets?
Posted by [Stein Vidar Hagfors H\[2\]](#) on Fri, 20 Dec 2002 21:10:49 GMT
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David Fanning <david@dfanning.com> writes:

> s@visita2.die.upm.es (s@visita2.die.upm.es) writes:
>
>> I try to progammatically set values of widgets like sliders or checkboxes.
>> When I use "WIDGET_CONTROL,myWidget,SET_VALUE=myValue", only the widget
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>> a widget _and_ generates the event that would have been generated if I
>> had changed the widget using the mouse or keyboard.
>
> Widget_Control, myWidget, Send_Event=thisEventStruct

Sigh... This reminds me of a program I once wrote (xrecorder) that would "infest" *any* widget program by installing its own routines as widget event handlers, to record the events... You could in fact record a complete demonstration session for any widget program, store it, and replay it (with the correct functionality - even moving the cursor over the screen to the right buttons etc to aid the eye, and with the recorded [editable] timing between each event, you could even edit the script to insert comments that would pop up on screen). The nice thing was that *nothing* had to be changed in the original programs. The only restriction was that the *structure* of the widget program could not (of course) be changed between recording and replaying.

Of course, the whole darn thing broke when IDL introduced a new version with

their "real modal widgets"). Ah, those were the days, when xmanager,/modal worked. At least *one* person got to use it for a real-world application (demonstrating the functionality of a relatively large software suite) before it got obsoleted, and it was a lot of fun to make!

--

Stein Vidar Hagfors Haugan
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