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Subject: Re: processing mouse dbl-clicks in IDL?  
Posted by [davidf](#) on Fri, 18 Apr 1997 07:00:00 GMT  
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Paul van Delst <[paulv@airs2.ssec.wisc.edu](mailto:paulv@airs2.ssec.wisc.edu)> writes:

> I was wondering if anyone had code or hints on how to process \*double\*  
> clicks on a mouse button within an IDL event handler? How would you wait  
> to check for the same event (a particular mouse button click) to reoccur  
> within a (user/default) specified time interval?  
>  
> I looked in the IDL FAQ and various links off of it but didn't find  
> anything.

Well, here is a piece of code that can reliably detect a double click on a BUTTON widget, at least on my Mac and Windows NT machines. I wrote this off the top of my head. I haven't tried to put this into a real piece of code, so I don't know if it will be generally useful. (My personal feeling is that I would test any code with this kind of button strategy VERY carefully before I showed it to anyone important!)

Here is how it works. The first button click sets a "first" flag and sends a TIMER event to the button. If a SECOND button click event gets to the event handler BEFORE the TIMER event does, then this is a DOUBLE CLICK event! A timer delay of 0.1 second works perfectly on my Mac. I need a delay of 0.2 seconds on my (much faster) Windows NT machine.

Let me know how this works in a real piece of code. :-)

Cheers!

David

```
*****  
PRO MOUSE_EVENT,event  
WIDGET_CONTROL, event.top, /DESTROY  
END  
  
PRO DOUBLE_MOUSE_CLICK, event  
WIDGET_CONTROL, event.top, GET_UVALUE=info, /NO_COPY  
thisEvent = TAG_NAMES(event, /Structure)  
  
; Double click event.  
  
IF (thisEvent EQ 'WIDGET_BUTTON') AND (info.first EQ 1) THEN BEGIN
```

```
Print, 'Hooray, DOUBLE click!'
info.first = 0
WIDGET_CONTROL, event.top, SET_UVALUE=info, /NO_COPY
RETURN
ENDIF
```

; Initial click event.

```
IF (thisEvent EQ 'WIDGET_BUTTON') AND (info.first EQ 0) THEN BEGIN
  info.first = 1
  WIDGET_CONTROL, event.id, Timer=info.delay
ENDIF
```

; Single click event.

```
IF (thisEvent EQ 'WIDGET_TIMER') AND (info.first EQ 1) THEN BEGIN
  Print, 'No, that was a SINGLE click!'
  info.first = 0
ENDIF
```

```
WIDGET_CONTROL, event.top, SET_UVALUE=info, /NO_COPY
END
```

```
PRO MOUSE, delay
IF N_PARAMS() EQ 0 THEN delay = 0.1
info = {first:0, delay:delay}
tlb = WIDGET_BASE(COLUMN=1)
button = WIDGET_BUTTON(tlb, Value='Double Click Me...', $
  EVENT_PRO='DOUBLE_MOUSE_CLICK')
quit = WIDGET_BUTTON(tlb, Value='Quit')
WIDGET_CONTROL, tlb, /REALIZE, SET_UVALUE=info, /NO_COPY
XMANAGER, 'mouse', tlb
END
```

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