Subject: Multiple widget_draw's and bad convert_coord
Posted by Todd Clements on Tue, 24 Jul 2001 19:43:43 GMT
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Hi all...

The attached sample code shows my problem. I have multiple widget_draws in a program that I'm writing, and I get button events from them so I can let the user select portions of a correlated spectrum to use as a gate for another spectrum. Anyway, I need to be able to get the coordinates that were selected in multiple plots (one at a time, of course), but when I try to do this, convert_coord always returns the coordinates from the last plot even if I'm clicking in the first plot, no matter how often I use wset to try and set the window.

In the example below, clicking in either the top plot or the bottom plot returns coordinates from the bottom plot. And you can complain about my use of common blocks some other time... I just wanted to get a sample program out the door. =)

```
print, !version
{ alpha OSF unix 5.4.1 Jan 16 2001      64      64}

;;----- Begin test code ---------
pro bad_test_event, ev, base
  common windowstuff, win1, win2, widget1, widget2

  if( tag_names( ev, /structure_name ) eq 'WIDGET_DRAW' ) then begin
     case ev.id of
        widget1: begin
           wset, win1
          result = convert_coord( ev.x, ev.y, /device, /to_data )
          print, result
        end
        widget2: begin
           wset, win2
          result = convert_coord( ev.x, ev.y, /device, /to_data )
          print, result
        end
     endcase
  endif
end ;; bad_test_event

pro bad_test
  common windowstuff, win1, win2, widget1, widget2

  base = widget_base( /column )
```

```
  widget1 = widget_draw( base, xsize=300, ysize=300, /button_events )
  widget2 = widget_draw( base, xsize=300, ysize=300, /button_events )

  widget_control, base, /realize

  widget_control, widget1, get_value = win1
  widget_control, widget2, get_value = win2

  wset, win1
  plot, findgen(50), findgen(50)^2

  wset, win2
  plot, findgen(50)+50, sin(findgen(50)/49.*!pi)

  wset, win1
  xmanager, 'bad_test', base

end
;; --------- End test code ---------------
```

Thanks in advance for any help!
Todd