Subject: draw widget in separate window does not create events?

Posted by Alfred de Wijn on Thu, 10 Jul 2008 23:17:29 GMT

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Hi everyone,

I'm running into an issue with draw widgets. I want to have two
windows, one with controls, and a second one with the draw widget.
The controls should respond to motion and button events in the draw
widget. It works fine as long as I put the draw widget in the same
window as the controls, but as soon as I split them, it seems that no
events are created. It must be possible to get this to work. I
haven't been able to find anything indicating that someone else ran
into this problem before.

I've included some code below that exhibits the problem using IDL 7.0
on OS X, IDL 6.4 on Linux, and IDL 6.3 on Windows. I suspect
programming error on my part, but then I have a report from David
Fanning that it does work as expected on his Windows system. Using
the code below, the sliders do not move if I move my cursor around in
the draw widget if it is in a separate window ('test'), but it does
work if the sliders and the widget are in the same window ('test, /
one'). Does anyone know what is causing this behavior?

Thanks,
Alfred

```
pro test_x_slider, event
 widget_control, event.top, get_uvalue = info
 (*info).x = event.value
end

pro test_y_slider, event
 widget_control, event.top, get_uvalue = info
 (*info).y = event.value
end

pro test_destroy, event
 widget_control, event.top, /destroy
end

pro test_mouse, event
 widget_control, event.top, get_uvalue = info

 if event.type eq 2 then begin
  widget_control, (*info).x_slider, set_value = event.x
  widget_control, (*info).y_slider, set_value = event.y
 endif
```

```
end

pro test, one = one
 xsize = 256
 ysize = 256

 root = widget_base(title = 'test', /column)
 x_slider = widget_slider(root, title = 'X position', $
  minimum = 0, maximum = xsize-1, value = 0)
 y_slider = widget_slider(root, title = 'Y position', $
  minimum = 0, maximum = ysize-1, value = 0)
 closebutton = widget_button(root, value='close', $
  event_pro = 'test_destroy')
 widget_control, root, /realize

 info = { x_slider:x_slider, y_slider:y_slider }
 info = ptr_new(info, /no_copy)
 widget_control, root, set_uvalue=info

 if keyword_set(one) then begin
  drawroot = root
 endif else begin
  drawroot = widget_base(title = 'test draw', group_leader = root)
  widget_control, drawroot, set_uvalue = info
  widget_control, drawroot, /realize
 endelse
 draw = widget_draw(drawroot, xsize = xsize, ysize = ysize)
 widget_control, draw, get_value = drawwid
 wset, drawwid
 widget_control, draw, event_pro = 'test_mouse', $
  /draw_motion_events, /sensitive

 xmanager, 'test', root, /no_block
end
```