Subject: Re: right-justifying draw widgets?
Posted by David Fanning on Thu, 04 Oct 2001 01:54:26 GMT
View Forum Message <> Reply to Message

Jeff Guerber (jguerber@icesat2.gsfc.nasa.gov) writes:

> I've been having a lot of trouble with a widget-layout issue, and not
> having gotten anywhere, I'm submitting it to the collective wisdom of the
> newsgroup.
>
> Below is a greatly simplified test case, demonstrating the general
> layout of a much larger program. Both of the frames contain draw widgets,
> of the same size, on the right, but the labels (and buttons, in the real
> one) on the left may be of different sizes. What I'd like to do is
> right-justify the draw widgets in their bases, so that they line up
> vertically. (In the real case, the lower plot is a difference of two
> curves from the upper one.) I've tried numerous combinations of
> /align_right and /base_align_right; making the frameBases column=2 instead
> of row=1 then using /align_right and /base_align_right; putting the draw
> widgets in their own bases and trying to align _those_; etc, etc. The
> only thing I've found so far that works is /grid, but that makes the
> controls as wide as the plot :-(
>
> Thanks for your help. And no, rewriting to use !p.multi won't help,
> because in the real program, the frames are each different instances of
> classes that plot some data and have various controls for choosing which
> curves to plot, change plot and curve properties, etc. I _said_ it was
> greatly simplified!

Ah, yes. Here is a great place for that ubiquitous base widget,
some geometry keywords, and -- of course -- a fudge factor.
(Don't ask me why there is a fudge factor, there just is, OK?)

Here is some code that works on my Windows 2000 machine.
I know this is NOT machine independent, but you get the
idea. I don't like to admit I write code like this, but
this is not the first time I have done it. Sigh...

Cheers,

David

```
pro test_drawalign

xs = 300L
ys = 200L

tlb = widget_base(column=1)
```

```
;; Upper frame, has long labels.
frameBase1 = widget_base(tlb, row=1, /frame)

labelBase1 = widget_base(frameBase1, /frame, column=1)
label1a = widget_label(labelBase1,value='This is a pretty long label')
label1b = widget_label(labelBase1,value='Here is another long label')

draw1 = widget_draw(frameBase1, /frame, xsize=xs, ysize=ys)

;; Lower frame, has short labels
frameBase2 = widget_base(tlb, row=1, /frame)

labelBase2 = widget_base(frameBase2, /frame, column=1)

label2a = widget_label(labelBase2, value='Short label')
label2b = widget_label(labelBase2, value='Also short')

spacer = widget_base(frameBase2)
draw2 = widget_draw(frameBase2, /frame, xsize=xs, ysize=ys)


;; Rest

fgeo = Widget_Info(framebase2,/Geometry)
bgeo = Widget_Info(labelBase2,/Geometry)
dgeo = Widget_Info(draw2, /Geometry)

spacerSize = fgeo.scr_xsize - (bgeo.scr_xsize + dgeo.scr_xsize)
fudgeFactor = 12
widget_control, spacer, Scr_XSize=spacersize-fudgeFactor

widget_control, tlb, /realize

widget_control, draw1, get_value=win1
wset, win1
plot,[0,1]

widget_control, draw2, get_value=win2
wset, win2
plot,[1,0]

return
end
```

--
David W. Fanning, Ph.D.
Fanning Software Consulting

Phone: 970-221-0438, E-mail: david@dfanning.com
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Toll-Free IDL Book Orders: 1-888-461-0155