Subject: passing values to cw_fslider
Posted by astroboy2k on Thu, 21 Feb 2008 20:18:24 GMT
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Hello.

I'm trying to write a program in which changes in the quantity associated with one widget are reflected in the values of other widgets, and I am at a loss to do this. In fact, I'm not sure it even can be done.

In the example below, I have slider widgets for mass, volume, and density. If I change the volume slider, the mass is held constant and a new value for the density is calculated. Etc.

The new values for volume, mass, and density are stored in the info structure correctly, it seems. However, the position of the other two sliders are not changed.

Is there anyway to do this? I really am stumped on this one.

Thanks,

Mark

```
;-------------------------------------------------------
pro pro_1, event
;change volume and density, mass remains constant
widget_control,event.top,get_uvalue=pinfo

density  = event.value
volume   = (*pinfo).mass/density

(*pinfo).density  =density
(*pinfo).volume   =volume

sub_print,pinfo
widget_control, event.top, set_uvalue=pinfo
```

```
end

;-------------------------------------------------------
pro pro_2, event
;change volume and density, mass remains constant
widget_control,event.top,get_uvalue=pinfo

volume     =event.value
density    =(*pinfo).mass/volume

(*pinfo).density  =density
(*pinfo).volume   =volume

sub_print,pinfo
widget_control, event.top, set_uvalue=pinfo

end


;-------------------------------------------------------
pro pro_3, event
;change mass, density remains constant
widget_control,event.top,get_uvalue=pinfo

mass       = event.value
volume     = mass/(*pinfo).density

(*pinfo).mass    =mass
(*pinfo).volume  =volume

sub_print,pinfo
widget_control, event.top, set_uvalue=pinfo

end

;-------------------------------------------------------
pro sub_print,pinfo
print,''
print,'density  = ',(*pinfo).density
print,'volume   = ',(*pinfo).volume
print,'mass     = ',(*pinfo).mass

end


;******************************************************* ********************************
;******************************************************* ********************************
```

```
pro junk,xxx

;the idea here is you have three widgets for mass, volume, and density
;if you slide one, the values for the other two change.
;I'd like to have the position of the sliders in the widgets change to
reflect the
;new values....



tlb        =widget_base(title='JUNK PROGRAM',column=1,
mbar=menubaseid)
drawid     =widget_draw(tlb,xsize=600,ysize=400)

slide_00  =widget_base(tlb,row=4)

    slide_dens    = widget_base(slide_00,event_pro='pro_1')
   fslide_dens    = cw_fslider(slide_dens,value=5.,min=0.1,
max=10.,title='DENSITY: gm/cc')

    slide_vol    = widget_base(slide_00,event_pro='pro_2')
   fslide_vol    = cw_fslider(slide_vol,value=8.,min=0.1,
max=10.,title='volume: cm-cubed')

    slide_mass    = widget_base(slide_00,event_pro='pro_3')
   fslide_mass    = cw_fslider(slide_mass,value=40.,min=0.1,
max=100.,title='mass: grams')



widget_control, tlb,/realize
widget_control, drawid, get_value=window


info ={  drawid:drawid,   $
         window:window,   $
         volume  :5.,     $
         density :8.,     $
  mass    :40.   }

pinfo=ptr_new(info)


;none of this seems to work
widget_control,fslide_dens,get_uvalue=density
widget_control,fslide_vol, get_uvalue=volume
```

```
widget_control,fslide_mass,get_uvalue=mass

;widget_control,fslide_dens,get_uvalue=(*pinfo).density
;widget_control,fslide_vol, get_uvalue=(*pinfo).volume
;widget_control,fslide_mass,get_uvalue=(*pinfo).mass


widget_control,fslide_dens,set_uvalue=(*pinfo).density
widget_control,fslide_vol, set_uvalue=(*pinfo).volume
widget_control,fslide_mass,set_uvalue=(*pinfo).mass

;end of non-working code



wset,(*pinfo).window
plot, findgen(10)


widget_control,tlb, set_uvalue=pinfo



xmanager,'junk_manager',tlb,/no_block


return
end
```