
Subject: Re: Resizeable Graphics window
Posted by [wlandsman](#) on Thu, 17 Feb 2011 21:01:30 GMT
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Another resizeable window question:

Do device coordinates make any sense in a resizeable window (when the size of your "device" is always changing)?

Below I give a test program that displays error bars, but first converts the data to device units. It works fine in a normal window, but if I create a resizeable window (i.e. test,/window) the lines are plotted incorrectly.

In this case, the use of device coordinates is perverse, but they are sometimes useful for "ornamental" figures. For example, setting the size of an arrow or the "hat" on an error bar to one-fiftieth of the screen size.

Thanks, --Wayne

```
pro test,window=window
x = indgen(10)
y = indgen(10)

; Let's do everything in device coordinates

data_low = convert_coord(x,y-0.5,/TO_DEVICE)
data_hi = convert_coord(x,y+0.5,/TO_DEVICE)
xd = data_low[0,*]
yl = data_low[1,*]
yh = data_hi[1,*]

cgplot,indgen(10),indgen(10),window=window,psym=2
if keyword_Set(window) then cgcontrol,execute=0

for i=0,9 do $
  cgplots,[xd[i],xd[i]],[yl[i],yh[i] ],/device, addcmd = window

if keyword_set(window) then cgcontrol,execute=1
return
end
```