Subject: Re: Postscript device coordinates
Posted by Foldy Lajos on Thu, 31 Aug 2006 17:49:15 GMT
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On Thu, 31 Aug 2006, greg michael wrote:

>
> I'm trying to make a plot with an exact print-size - 2 cm per tick mark
> - using the PS device.
>
> Setting up the plot window works ok:
>
> set_plot,'PS'
>
> xrange=[-3,1]
> yrange=[-4,2]
> xticks=xrange[1]-xrange[0]
> yticks=yrange[1]-yrange[0]
>
>
> device,/encapsulated,filename="test.eps",/helvetica,xsize=xticks*2.+3.,ysize=yticks*2.+3.
>
> Then I hoped to be able to specify the plot region in centimetres using
> 'position':
>
>
> plot,[0],[0],/nodata,xrange=10.^xrange,/xlog,yrange=10.^yran ge,/ylog,/isotropic,$
> position=[2.,2.,2.+xticks*2.,2.+yticks*2.],/device,$
> xticks=xticks,yticks=yticks
>
> device,/close_file
>
> Seems the device coordinates are not cm, since all I get is a spot in
> the bottom left corner. By trial and error, I find that if I multiply
> the position array by 1000, I get more or less something which fills
> the window. But I don't know where this 1000 figure comes from: does
> anyone know what it means? And how I can calculate the exact value?
>
> many thanks,
> Greg
>
>

IDL> set_plot, 'ps'
IDL> help, !d, /str
** Structure !DEVICE, 17 tags, length=84, data length=84:
NAME STRING 'PS'
X_SIZE LONG 17780

```
Y_SIZE          LONG           12700
X_VSIZE         LONG           17780
Y_VSIZE         LONG           12700
X_CH_SIZE       LONG             222
Y_CH_SIZE       LONG             352

X_PX_CM         FLOAT         1000.00
Y_PX_CM         FLOAT         1000.00

N_COLORS        LONG             256
TABLE_SIZE      LONG             256
FILL_DIST       LONG               1
WINDOW          LONG              -1
UNIT            LONG               0
FLAGS           LONG          266807
ORIGIN          LONG      Array[2]
ZOOM            LONG      Array[2]
```

regards,
lajos
