
Subject: Postscript device coordinates

Posted by [greg michael](#) on Thu, 31 Aug 2006 17:23:58 GMT

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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.^yrange,/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