
Subject: How to shift the values of x axis from position of x axis to other

Posted by [sid](#) on Fri, 16 Apr 2010 11:32:40 GMT

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Hi,

I am having a plot, with xaxis varies from 0 to 1023(pixels) and yaxis varies from 5000 to 7000(intensity), likewise i am having 21 plots, each of this plot having different y axis value but same x axis values.

Now I need to find an interval in the xaxis, say suppose from 537 to 567 and I need to find the minimum y value in this particular interval of x values.

ok that I can find using where command.

But if suppose this minimum y value is occuring at 545th pixel for one of the plots out of 21 plots and for the other plot it occurs at 543th pixel, then how to make the minimum value of y at the interval 537 to 567(x values) fall on one particular pixel for all the 21 plots.

please give some suggesions and tips in this regard.

regards

sid

Subject: Re: How to shift the values of x axis from position of x axis to other

Posted by [cgguido](#) on Fri, 16 Apr 2010 16:14:02 GMT

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On Apr 16, 6:32 am, sid <gunvicsi...@gmail.com> wrote:

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> pixel, then how to make the minimum value of y at the interval 537 to

> 567(x values) fall on one particular pixel for all the 21 plots.

>

> please give some suggestions and tips in this regard.
> regards
> sid

Sounds like a job for min() with a DIMENSION keyword...

```
Result = MIN( Array [, Min_Subscript] [, /ABSOLUTE] [,  
DIMENSION=value] [, MAX=variable] [, /NAN] [,  
SUBSCRIPT_MAX=variable])
```

e.g. for two "plots" :

```
x=indgen(7); fake x values  
y1=[3,2.2,3,3,3,3,4] ; fake plot 1 values  
y2=[2,2,2,1,2,2,2]; fake plot 2 values  
plot, x, y1, /xstyle  
oplot, x, y2  
yy=[[y1],[y2]]; concatenate arrays together  
mm=min(yy,w, dim=1); get minimum along dim=1 (ie for each column)  
print, mm ; the minima  
w=array_indices(yy, w)  
print, yy[w[0,*],w[1,*]]  
oplot, x[w[0,*]], yy[w[0,*],w[1,*]], ps=6, syms=4
```
