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 occurring 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 caguido on Fri, 16 Apr 2010 16:14:02 GMT

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

- > 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.
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- > 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
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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.

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> please give some suggesions 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)
```

oplot, $x[w[0,^*]]$, $yy[w[0,^*],w[1,^*]]$, ps=6, syms=4

print, mm; the minima w=array_indices(yy, w) print, yy[w[0,*],w[1,*]]