Subject: How can i put in a IDLgrAxis non constant values ?
Posted by natha on Fri, 16 Nov 2007 20:07:55 GMT

My question is really simple but I don't know how to put non constant values in IDLgrAxis...

I want to put in the IDLgrAxis non constant values like:
[0, 10, 20, 30, 40, 41, 42, 43, 44, 45, 50, 60, 70] but conserving the distance between the values

```
,___,___,___,___,___,___,___,___,___,___,___,___,
0  10  20  30  40 41 42  43  44  45 50  60  70
```

How can I do this ??

Subject: Re: How can i put in a IDLgrAxis non constant values ?
Posted by badjelly.witch on Sun, 25 Nov 2007 22:48:59 GMT

On Nov 17, 9:07 am, natha <bernat.puigdomen...@gmail.com> wrote:
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> values in IDLgrAxis...
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> [0, 10, 20, 30, 40, 41, 42, 43, 44, 45, 50, 60, 70] but conserving the
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>
> ,___,___,___,___,___,___,___,___,___,___,___,___,
> 0 10 20 30 40 41 42 43 44 45 50 60 70

It's been a while since this question was asked, but I don't see a reply, so...

The best way, I think, is to plot against an underlying variable that *is* equi-spaced. So, in the above example, let's call the variable you want to show in the axis object x and the equi-spaced variable xx, and you want
x = 0 <-> xx = 0, x = 10 <-> xx = 10, etc, up to x = 70 <-> xx = 12.
For each, data point, you need to calculate xx. That's up, to you, but I assume you have a piecewise linear relationship, which shouldn't be too hard to code.

So, you've plotted your y variable (or whatever), against xx, how do you get the tick marks in the right place with the right labels. To get them in the right place, set the TICKVALUES property. While you're at is suppress minor tick marks.

oax->SetProperty, TICKVALUES=indgen(13), MINOR=0

To get the labels right you can hard-code them. The following should
work, providing it's done after the axis has been initialised:

oax->GetProperty, TICKTEXT=otext
otext->SetProperty, STRINGS=['0','10',...,'70']

where you're going to have to fill in the "...".

Better, though, to use the TICKFORMAT property and supply a function
that will produce the right label, given the respective values of xx.
The manual explains how to do this.

Cheers...