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Subject: Re: Customizing linestyles for PLOT?  
Posted by [btt](#) on Tue, 16 Mar 2004 21:35:05 GMT  
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Mark Hadfield wrote:

> Liam Gumley wrote:

>

>> One of my colleagues was just expressing his frustration at the  
>> limitations  
>> of the plotting linestyles available in IDL direct graphics. He likes to  
>> plot absorption/emission spectra, and apparently the default linestyles  
>> don't work well. For example, he would like to have dashed lines with  
>> long  
>> dashes and small gaps, and be able to adjust the lengths of the dashes  
>> and  
>> gaps. Before I tell him to write a wrapper for PLOT, I was wondering if  
>> anyone has tackled this problem already.

>

>

> I'm sure you're aware of this already, but the Object Graphics LINESTYLE  
> property supports user-defined stippling patterns. I was a little  
> surprised just now to find that no such thing is mentioned in the Direct  
> Graphics documentation.

>

> I do most of my line plots in Object Graphics. It's not *that* painful.

>

>

Hello,

What about resampling the data on a regular grid with finer spacing than the original data has. Then create a CONTINUE vector to use with PLOTS; make continue = 1 where line should look like a dash and continue = 0 for the gaps. Finally, loop through the resampled data using PLOTS with the CONTINUE keyword.

The following uses David Fanning LoadData program and doesn't show the resampling sampling step, but you might get the idea.

```
IDL> y = LoadData(17)
IDL> continue = Replicate(1B, 101)
IDL> for i = 0, 100, 5 do continue[i] = 0B
IDL> plot, y,/noData
IDL> for i = 0, 100 do PlotS, i, y[i], continue = continue[i], psym =
-3,/data
```

I didn't do the resampling bit, because I could not think how to (1)

preserve the original data and (2) interpolated faithfully between the data points. I'm sure there is a way to use INTERPOL to do this quickly.

Ben

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