Subject: Re: How to handle gaps in plot?
Posted by Craig Markwardt on Sat, 13 Aug 2005 04:16:40 GMT
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"caitouer" <caitouer@yahoo.com> writes:
> Thanks for your quick reply. It is true that it is easy when you have
> filled the gap with some values. However, I am trying to figure out
> how to plot when you do not fill the gap. Here is an example:
>
> X (time):[1,2,3,5,6,7,10,11,12,19,20,21,22,23,24]
> ;Hourly data in one day. There are several gaps in the data
> ;array. You do not know when you will have gap nor
> ; how large the gap is. The actual data is not so regular and
> ;huge. So it is not practical to fill the data.
>
> Y (some values):
> [1.1,0.9,1.3,1.6,2.1,0.7,2.3,0.1,0.3,0.6,0.9,1.4,1.3,1.7,1.8]
> ; these are the measurements you take at above time.
>
> Then when you type:
> plot,x,y
> There will have lines between the intervals. However, these lines are
> meaningless.

I have a routine called GTISEG which groups data points into segments.
With that routine, it is up to you to decide how big of a time
separation is a gap.

Once you have the time segments, you can do a FOR loop and plot each
segment separately, i.e. use WHERE to find the points in each segment,
and then OPLOT those points onto your graph.

Craig

GTISEG can be found here:
http://cow.physics.wisc.edu/~craigm/idl/arrays.html

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