Subject: Re: How not to plot blank/zero points?
Posted by Adam Solomon on Sun, 02 Aug 2009 05:25:25 GMT
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On Aug 1, 10:17 pm, pp <pp.pente...@gmail.com> wrote: > On Aug 2, 12:50 am, Adam Solomon <rampa...@gmail.com> wrote: > >> I have an array (matrix, about 13 columns) of strings consisting of >> numbers and blanks*. When I plot the data in each column, the blanks >> get plotted as zeroes, so if I just plot points, things are OK (as >> long as I start my plot range above 0), but if I want to connect the >> points with lines then there are lines going to and from these blank >> points. >> How do I make IDL not plot these blank points (or points equal to 0)? >> The only way I've found is by plotting in log (so the points don't >> even show up) but for various reasons I'd rather not use log. >> *If I were to do this as a floating point array, the blanks all become >> 0.000, and that doesn't help. Saying your array is called data, here are 3 ways to do it: > > 1) Filter out the blanks, using where() to find the points you want, > as in: > iplot,data[where(data ne 0.0)] > assuming the blanks are 0.0. If they are empty strings, as your > descritpion suggests: > iplot,data[where(data ne ")] > or use whatever value the blanks happen to have in the argument of > where() > > 2) If you want to plot only values in a certain range, use the > min_value and/or max_value keywords: > iplot,data,min_value=minv > with minv of a proper value, higher than 0., and lower than the > minimum you want to plot > > 3) Mark the points you do not want to plot with NaN, as in: > data[where(data eq 0.0)]=!values.f_nan > iplot,data > Everything with a value of NaN is ignored by iplot.

Thanks!! I use plot (I'm not sure what iplot is) - will these work with plot as well? Unable to try at the moment.