Subject: log axis with negative numbers
Posted by larsonej on Thu, 06 Mar 2014 22:58:42 GMT

Does anyone know of a way or workaround to make linear plots with a log axis that includes negative numbers. This comes up when plotting thins like vertical winds in a planetary atmosphere. The higher you go, the larger the magnitude of the wind by several orders and the sign can vary from positive to negative.

The other time this comes up is when I make a 2D contour map in which I specify levels such as [-1.e3,-1.e2,-1.e1,0,1.e1,1.e2,1.e3]. IDL makes a great color contour map, however I cannot figure out a colorbar that has colors that actually match the values in the contour plot.

Basically, I am looking for a plotting routine in which I input the maximum and minimum values for the negative and positive sides of the plot and in between the two minimums, the plot can be linear, or empty, doesn't really matter.

Any help would be appreciated.