Subject: Bug regarding plot limits when setting RANGE and TICKS
Posted by joel on Fri, 14 Oct 1994 17:27:00 GMT

I have run across the following rather glaring problem, and have no idea why I did not notice it earlier. I'm posting to see if anyone has comments (am I just being clueless?) and to give a fix I found for those who may have run into this problem before.

If you want to reverse the direction of the Y axis in a plot, the following works fine:

  plot, indgen(10), YRANGE=[10,0]

which plots from ten at the bottom to zero at top. HOWEVER, if you specify the number of ticks for the plot, the plot ranges change to very incorrect values, e.g., the command:

  plot, indgen(10), YRANGE=[10,0], YTICKS=10

results in a plot with ten at the TOP and a larger number (20 or 30 depending on the versions of IDL I have tested) on the bottom.

I found that this problem can be fixed if you also use YSTYLE=1, which then correctly sets the axis range.

This problem exists for X, Y, and Z keywords and system variables, and when using the AXIS and SURFACE procedure. I have tested IDL versions 2.2, 3.5, and 3.6, and the problem occurs in all of them.

chao
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