
Subject: Old log_log plot question ...

Posted by [jeyadev](#) on Tue, 04 Mar 2003 20:07:25 GMT

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I have a question about the axes on log_log plots in PV Wave. Years ago, I submitted a bug report. It was acknowledged, but it does not seem to have been fixed, at least up to CL Version 6.01.

The problem occurs in the labels of the axes when one forces the range to be part (or parts) of a decade. Consider the (real!) data given by

WAVE> print, v

550.000	600.000	650.000	700.000	750.000	800.000
850.000	900.000	950.000	1000.00	1050.00	1100.00
1150.00	1200.00	1250.00	1300.00	1350.00	1400.00

WAVE> print, imax

121.478	155.636	196.968	261.045	342.144	440.244
539.048	679.079	825.724	1033.60	1238.57	1568.95
1825.55	2204.99	2612.35	2980.93	3218.63	3254.11

Now,

WAVE> plot_oo, v, imax

will produce a correct plot. However, the command

WAVE> plot_oo, v, imax, xran = [500,1500], /xsty

will produce a bogus x axis. The plotted points themselves look correctly placed in the x direction and there is no problem along the y axis, either, but the x labels are not where they ought to be.

Does anyone know if this has been fixed in later versions?

How does IDL work with this data for xrange = [500, 1500]?

thanks

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