Subject: interpolate large numbers
Posted by ece on Tue, 07 Jun 2011 21:35:08 GMT
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Hi,
I have a problem. i want to interpolate linearly some large numbers such as:

frequency	L
6.28865e+14	8.2654538e+28
1.66951e+15	4.0936348e+28
1.75106e+15	3.9580807e+28
2.05175e+15	3.4878620e+28
2.31700e+15	3.0611352e+28
4.90883e+17	1.0399752e+25
1.47366e+18	1.2454723e+24
2.44933e+18	4.6650308e+23

First I created the interval for the interpolation :
range=maken(6.28865E+14,2.44933E+18,1000)
I used the interpol:
Lum=interpol(L,frequency,range)

But when I plot the result it does not look a linear interpolation, there are gaps and curves between data points. Do you have a suggestion?

My aim is to integrate this data points and get L. If I di it same way in the alog10(freq) and alog10(L) values the intepolation looks nice, but I couldn't figure out how to convert integral result in alog10 values to normal scale.