Subject: Re: interpolate large numbers

Posted by pgrigis on Tue, 07 Jun 2011 21:42:11 GMT

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On Jun 7, 5:35 pm, ece <ecekile...@gmail.com> wrote:

- > Hi,
- > I have a problem. i want to interpolate linearly some large numbers

4.6650308e+23

> 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

- > First I created the interval for the interpolation :
- > range=maken(6.28865E+14,2.44933E+18,1000)

1000 points will not divide that range in a fine enough grid - the first few data points will all be around the first element of your range array.

You could increase the resolution of your range, or use a logarithmic scaling instead (which is probably better).

Ciao, Paolo

- > 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.