Subject: TS_SMOOTH function
Posted by atmospheric physics on Fri, 08 Aug 2014 09:04:17 GMT
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Dear All,

I have a float array of 1 X 86400 dimensions. I want to compute the 'central moving averages' at different widths (i.e., Nvalues). So, I am using TS_SMOOTH. Though I don't have any problem using this function, I find it very slow if I have to generate the 'central moving averages' for different widths, say

Nvalues = 2^(indgen(12)+1) + 1

= [2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096] + 1

Now my questions are:

(a) What is the maximum possible width (or 'Nvalues') of a data array with dimensions as above or say 1 x m dimensions? Is there any formula to determine this before basing on the data dimensions?

(b) I can't define the vector array of 'Nvalues' and so this function works for single column or row dimensional data.

(c) Can anyone suggest me if there is a better function for faster computation of central moving averages of a particular data with vector array of 'Nvalues'?

Looking forward for your suggestions,
Thanks in advance,
Madhavan