Subject: Re: Smooth()__

Posted by jeyadev on Thu, 14 Dec 2000 15:44:25 GMT

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In article <3A385A8B.B4CCE3C5@wellesley.edu>,
Richard G. French <
> Out of curiosity, can anyone think of a good reason that the
> smooth() function bombs when you ask it to smooth something by 1?
>
> Ex:
>
> print,smooth([1.,3.,4.,2.],3)
               2.66667
   1.00000
                           3.00000
                                       2.00000
> print,smooth([1.,3.,4.,2.],1)
> % SMOOTH: Width must be > 2 and smaller than array dimensions: <INT
> (
       1)>
> % Execution halted at: $MAIN$
> I have lots of instances where the amount of smoothing I want to
> do is a variable, and it seems silly to have to do my own checking
> to see if I actually need any smoothing or not.
> It certainly makes sense to me that if the
> smoothing width is only one bin, the smooth() function should just
> be a no-op and return the input array. This is what the REBIN()
> function does, after all - it does not complain if you tell it you
> want the array to be rebinned to its actual size!
>
> I've had to construct a 'mysmooth()' function that checks to see
> if the number of points by which to smooth things is less than 2,
> in which case I just return the calling array.
> Are there other functions out there that you can think of that
> don't have a sensible default evalution for limiting cases like this?
> I would love to see this one changed.
See my posting vesterday about the AVG function. When it gets a
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See my posting yesterday about the AVG function. When it gets a scalar, it spews out an error message as the argument expected is an array. Yes, one would assume that some elementary checking to catch degenerate cases is done. I am using PV-Wave CL Version 6.01.

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Surendar Jeyadev jeyadev@wrc.xerox.com