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Subject: Re: strange "eq" behaviour

Posted by [Spon](#) on Mon, 15 Feb 2010 16:18:44 GMT

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On Feb 15, 3:54 pm, chris <rog...@googlemail.com> wrote:

> Hi David,  
> maxx is the correlation coefficient of some data series. It should be  
> exactly 1 if two data vectors are equal - but it isn't - so now I run  
> into bigger problems with the inbuilt correlate function . Anyway,  
> thanks for your hint.  
>  
> CR

Hi David,

'It should be exactly one' is a tricky statement in floating point arithmetic.

Looks like a good time to trot out this old line again:

[http://www.dfanning.com/math\\_tips/sky\\_is\\_falling.html](http://www.dfanning.com/math_tips/sky_is_falling.html)

Your specific problem (or something very similar) is dealt with this article:

[http://www.dfanning.com/code\\_tips/comparearray.html](http://www.dfanning.com/code_tips/comparearray.html)

You might have more success comparing floats using this program:

[http://www.dfanning.com/programs/floats\\_equal.pro](http://www.dfanning.com/programs/floats_equal.pro)

Regards,  
Chris

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