Subject: TOTAL function
Posted by fd_luni on Fri, 15 Nov 2013 16:54:44 GMT
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Hi

I want to calculate the error using the TOTAL function but I got very strange results:

The error is given by
error=||Aexact-Anoisy|| with matrix A=array[1,200]

where the ||.|| represents a norm.

I typed my code like this
SQRT(Total (AExact - Anoisy) ^2.)

Each time I run this I got very different and illogical number. The maximum value of an error isn't 1?

Many Thanks

Subject: Re: TOTAL function
Posted by on Fri, 15 Nov 2013 17:22:21 GMT
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Den fredagen den 15:e november 2013 kl. 17:54:44 UTC+1 skrev fd_...@mail.com:
> Hi
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> SQRT(Total (AExact - Anoisy) ^2.)

You probably want to write this as SQRT(Total((AExact - Anoisy)^2.)) so that you do the squaring before the summing.

> Each time I run this I got very different and illogical number. The maximum value of an error isn't 1?

That's difficult to answer without knowing anything about the contents of the two arrays.

Subject: Re: TOTAL function
Posted by fd_luni on Tue, 19 Nov 2013 09:59:13 GMT
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> You probably want to write this as SQRT(Total((AExact - Anoisy)^2.)) so that you do the squaring before the summing.

Yes, this is what I want thanks a lot.