Subject: Re: avoiding for loop when calculating median
Posted by George McCabe on Mon, 02 Feb 1998 08:00:00 GMT
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Thanks for your inputs, Alex.

following an earlier hint on the group I wrote the loop like you describe, but without REFORM'ing the matrix. To be honest my matrix is a large data cube, but I chose a 2D example to make the description less opaque. The reduction in execution time was measured - 20%, which on 45 seconds is significant. When you say HUGE is that the scale of the increase you experienced.

I didn't REFORM the data because I figured it wasn't worth the extra step as the cube can be addressed directly as 1D. But if yours ran much faster including the step to REFORMAT then I'll try it.

Thanks again, George

Alex Schuster wrote:
>
> Oops! I wrote:
>
>> I assume that mat is an idim x jdim array. mat(cnt,*) gives the elements
>> no. cnt, cnth+idim, cnth+2*idim etc., I guess it's easier to use
>> mat2=reform(mat), so all the elements are in line.
>
> Don't know why I wrote REFORM here, it's TRANSPOSE.
> I just tested this with an 5000x5000 float array, there is a HUGE
> difference in the execution time.
>
> Alex

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