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Subject: Re: grid3 and ill-conditioned matrix stuff

Posted by [Richard French](#) on Sat, 06 Jan 2001 00:39:51 GMT

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tbowers wrote:

> An example of my data. xData, yData, zData, vData in 1st, 2nd,  
> 3rd, 4th columns respectively. xData, yData, zData are in  
> same units (meters).

>

> xData        yData        zData        vData

>

> 573777.43 4344653.40 00.8 2.82174045

> 573777.43 4344653.40 00.9 2.82353044

> 573777.43 4344653.40 01.0 2.81546044

> 573777.43 4344653.40 01.1 2.81331551

> 573777.43 4344653.40 01.3 2.80542541

> 573777.43 4344653.40 01.4 2.80256045

>

If all of your x values are so close to 573777.  
and y values are close to 4344653., try as a start  
just subtracting the mean values of each of these  
arrays from the array itself. I think you may be  
running into roundoff problems. You could also try  
to cast these arrays as double precision and see  
if that helps, but it may be that the internal  
workings of trigrid aren't all in double precision.

Dick French

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