
Subject: Re: Contour Problem

Posted by [Christopher Lee](#) on Sat, 24 Apr 2004 11:39:58 GMT

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On Fri, 23 Apr 2004 17:11:11 -0500, Jeff Patrick wrote:

> I keep getting the following error in my code and I can't figure out why.
> Any help would be appreciated.
>
> % Internal error: Triangulation is invalid.
>
> CONTOUR, X, Y, Z, IRREGULAR=1, ISOTROPIC=1, /CLOSED, /CELL_FILL, /OVERPLOT,
>
> each array is 32400 in size.
>
> Thank you,
>
> Jeff
> jeff.patrick@computer.org

Your getting the error because the contour function calls the triangulate function internally, which throws an error on your data. If you can separate the data from the Widget program, do it :) (save it to a file).

Then run TRIANGULATE on the data, if that throws an error, it probably will, something is wrong with the data. e.g

There are identical points in the data, triangulate works (in a fluffy, wordy kind of way) by drawing circles which have the points on the circumference. If the points are identical, it can't work. (This would be my guess).

There are colinear points which otherwise satisfy the Delauney Triangulation algorithm, (good luck finding these). The triangle will be 'flat', i.e not a triangle. If this is going to happen, it would most likely happen on the first three points, which are needed to bootstrap the algorithm.

Chris.
