
Subject: Re: Contour Problem

Posted by [Jeff Patrick](#) on Mon, 26 Apr 2004 16:04:33 GMT

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I've checked the latitude and longitude and do not see any duplicate data, so I guess my next question is what data type (int, single, double, etc.) is Contour looking for? I could see that it may think there is duplicate data if it is rounding the values I'm sending it. Also does Contour use the value stored in the zero (0) index of the array (it seems that other IDL function may not)?

Thanks for the help on this,

Jeff

"Christopher Lee" <lc@127.0.0.1> wrote in message

news:pan.2004.04.24.11.39.58.346601@127.0.0.1...

> 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.
