

---

Subject: Re: Contour Problem

Posted by [btt](#) on Mon, 26 Apr 2004 13:22:14 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Christopher Lee wrote:

> 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.

>>

>

> 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.

>

Hello,

The GRID\_INPUT (IDL 5.5+) can be used to fish out the duplicate data  
triplets before the call to TRIANGULATE. See the DUPLICATES keywprd to  
GRID\_INPUT.

Ben

---