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Subject: Irregular gridding

Posted by [sanjay](#) on Thu, 01 Apr 1993 20:34:02 GMT

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I have specific problem regarding irregular gridding. I have a visualization code which does contour plots. I do software zooming by user choosing domain of interest and plotting contours only in that area. So far, I have been changing the xrange and yrange only. Now I feel it is not necessary to do contours in the area which is not in the area of interest.

What I did was to select the data only in the area,

```
s=where((x ge xl and x le xu) and $  
        (y ge yl and y le yu),count)
```

S is an array of subscripts, y and x are two dimensional arrays.

Since, contour requires z to be two dimensional, I used triangulate and trigrd to get two dimensional array. This works well for rectangular region. If I have multiply connected regions, this behaves weirdly.

Since trigrd interpolates values on a regular grid it fills up the hole where I am not suppose to have data at all. I think I can not go any further in this direction.

If I can get s to be double subscript pointer array, I think (I am not sure) I can save all the trouble of triangulate and trigrd.

Any body has any suggestion?

-sanjay

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