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Subject: interpolation around a contour

Posted by [Inpakala Simon](#) on Wed, 08 Mar 2000 08:00:00 GMT

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Dear Group:

This is what I have:

I have an xy array of coordinates for a contour (closed contour if you connect the points) that has the following properties:

- arbitrary number of coordinates, they are generally bigger than 200.
- coordinates are irregularly spaced.

This is what I need:

I need to interpolate points around the old contour so that

- the number of points = a power of 2 = 256
- interpolated points are equidistantly spaced from one another.

The original and interpolated contour should have the same perimeter and shape.

I have tried IDL's technical support and their suggestions did not work. I have tried several permutations of TRIGRID, TRIANGULATE, Spline\_P, and CONGRID. They do not give me the right answer. Perhaps I am choosing the wrong keywords?

Any help would be most appreciated.

Regards,

Inpakala Simon

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