Subject: Re: interpolation around a contour Posted by Med Bennett on Thu, 09 Mar 2000 08:00:00 GMT View Forum Message <> Reply to Message

Just curious - have you experimented with the INTERPOLATE function? Otherwise, I can see how I would do this with brute force - i.e. loop through the line segments making up the contour, accumulate euclidean distance, find the interpolation interval, calculate new coords, etc. Sounds tedious though.

Inpakala Simon wrote:

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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,
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