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Subject: Gridding/Interpolating a large image

Posted by [Ned Horning](#) on Fri, 16 Mar 2001 01:45:20 GMT

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Hi, I am an ENVI user and I would like to create a digital elevation model from a set of contour lines and cannot figure out how to do this with ENVI or IDL. When I've done this in the past I did a vector-to-raster conversion to rasterize the contour data and then ran an interpolation algorithm to generate the DEM. ENVI has a "Raterize Point Data" option that seems to do what I want but it requires an ASCII Point file and I don't know how to convert a vector file to an ASCII point file. IDL has some interesting gridding and interpolation options but I'm not sure how to implement them on a large 5000 x 6000 Integer image. My guess is IDL can do this easily but my IDL skills are not all that sharp.

I have a raster image of the contour lines and now all I need to do is implement some sort of interpolation. The algorithm I've used in the past was based on the CONSURF algorithm but I think the Triangulate/Trigrd routines will work but am not sure how to run it on a large image.

Any help is appreciated.

Ned

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