Subject: tri_surf : convergence
Posted by M.W.Gardner on Fri, 12 Jan 1996 08:00:00 GMT
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Can anyone explain the following and/or suggest a way around the problem ?

I am trying to interpolate four data points (each at the corner of a rectangle)
over the rectangle at a finer resolution.

My grid is as follows :
1010.95 1009.80
1016.40 1015.25
and is stored in the floating point 2x2 array 'grid'

My code then interpolates this using the TRI_SURF function as follows:

fgrid=tri_surf(grid,nx=11,ny=6)

The result of this is an error message :

% TRIGRID: Partial derivative approximation failed to converge.
% Error occurred at: TRI_SURF 192 /dave3/rsi/idl_4/lib/tri_surf.pro

Please can anyone explain what is going on. The interpolation appears to work
fine for most other values.

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opinions are mine - http://www.uea.ac.uk/~e449