Subject: Re: Nearest Neighbor ... again! Posted by Fabzi on Thu, 08 Jul 2010 13:40:19 GMT

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I am sorry, I did not make clear that grid1 and grid2 are two different irregular grids (lat1,lon1),(lat2,lon2). It is indeed classical, I know, and I feel quite embarrassed!

So the code here:

```
n1 = n elements(ilon)
 triangulate, x1, y1, c; Compute Delaunay triangulation
 out = GRIDDATA(x1,y1, LINDGEN(n1), XOUT=x2, YOUT=y2, /NEAREST_N,
TRIANGLES = c
```

Is giving me, for each point in Grid2, the index of the closest point in grid1. My question is, how to get the four closest points? The "bad trick" that I used with GRIDDATA won't work here...

On Jul 8, 3:21 pm, David Fanning <n...@dfanning.com> wrote: > Fabzi writes: >> You probably have been asked many times, but once again this >> apparently simple problem is driving me crazy. The problem is famous: > >> I have a 2D grid defined by x1 (dim 2 array, for example lons) and y1 >> (dim2 array, for example lats). And I want to fit it to a second grid >> x2, y2. More precisely, I want to know the indexes in GRID1 that are >> the closest to each of my points in GRID2. The output of my function >> has then the same dimension as GRID2. > > Unless I completely miss the point, this seems to me > to be a simple nearest neighbor interpolation from one > grid to another. CONGRID has been used for this purpose > for years. :-(> > Cheers, David > > David Fanning, Ph.D.

> Coyote's Guide to IDL Programming:http://www.dfanning.com/

> Fanning Software Consulting, Inc.

>	Sepore ma	de ni thui.	("Perhaps thou s	speakest truth."	١

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