Subject: Tri_Surf Help
Posted by plim.dreaming on Tue, 21 Apr 2009 22:55:56 GMT
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Greetings Avid IDL'ers,
I'm having a very frustrating issue with Tri_Surf, the program used to fit a smooth surface to a set of regularly or irregularly points.

I obtain the surface:
smoothN = 100
surface = tri_surf(rho,x,y,nx=smoothN,ny=smoothN,/linear)

then i set some coordinates for the output:
smoothx - findgen(smoothN)*(ABS(max(x) - min(x)) / (smoothN-1)
likewise for smoothy

then I contour plot these:
contour, surface, smoothx, smoothy

The difficulty I am having is in being able to overplot the same points used to create the surface, because these no longer match up with the location of the contour levels.
I actually compare the contour of the surface to a contour plot made simply using
contour, rho, x, y, triangulation=tri

and I can see that the smoothed surface is not to the same scale and doesn't line up, the plots don't match up. It looks like the smoothed surface has been stretched in x and y relative to where the original points show up.

I'm floundering here, any ideas would be sooo helpful!
P