Subject: XYZ plotting
Posted by burkina on Mon, 11 Jul 2005 16:05:47 GMT
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Well, this is probably a silly question, but I cannot find a straightforward answer, so I think I'd better ask to someone who understanfs IDL much better than me!

I have an ASCII file with a 3D function, like:

0.55 2.0 0.000198665
0.55 2.25 0.000215043
0.55 2.5 0.000228681
0.55 2.75 0.000241278
0.55 3.0 0.000253149
0.55 3.25 0.000266940
0.55 3.5 0.000287297
0.55 3.75 0.000321452
0.55 4.0 0.000387827
0.55 4.25 0.000547268
0.55 4.5 0.00110803
0.55 4.75 0.00685613
0.55 5.0 64.4346
0.55 5.25 1013.68
0.6 2.0 0.000353857
0.6 2.25 0.000383346
0.6 2.5 0.000407687
.....

Quite obviously, the first is the X value, the second is the Y value and the third is the Z value.

I simply would like it to treat it with the contour and the surface commands.
I've found a method in Dave Fanning's page, but I would prefer not to use triangular grids. Instead I'd prefer to change the dataset in the 2-d array required by contour and 2 linear vectors for x and y.
I guess I wuold succed in doing this with some loops, but I hoped there would be an easier way with IDL. I mean... is there a straightforward way to plot your xyz data in IDL?

Alternatively (but I guess it's almost the same idea), I would like to plot in the x-y plane the z values with a color code, like an image, selecting the ranges for each color as I prefer, likely smoothing the image.

Thanks for your help,