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Subject: Assign data point to n-Dimensional grid  
Posted by [antar3s86](#) on Fri, 22 Jun 2012 14:46:35 GMT  
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Hi

I face a serious problem in the development of my algorithm. In principle it is very simple:

I have a data point in a 9-dimensional parameter space (say,  $x_1, x_2, x_3, y_1, y_2, y_3, z_1, z_2, z_3$ ) with  $x, y, z$  being physical quantities with different units. Furthermore, I have an unequally spaced 9-dimensional reference grid and all I have to do is to compute which grid point is closest to my data point with respect to all 9 dimensions.

I have to do this several billion times, so I really want to make sure to do it as fast as possible.

Any help with that?

cheers

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