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Subject: the fastest way to find number of points in sphere(radius r)  
Posted by [snfinder@naver.com](mailto:snfinder@naver.com) on Tue, 22 Nov 2005 08:16:35 GMT  
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Dear all,

First of all, my data is three-dimensional set.  
I have to use a loop because I have a lot of positions of centers of spheres that I should examine.  
I want to find the # of points inside each sphere.  
Now, I use a where function in order to find points inside the cube, then I compute distances of all. Next, I use where function again to examine # of distances less than radius of sphere.  
I think it is fairly slow when large data is considered.

Is there any faster way?

The fastest way to find the number of points in sphere(radius r)

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data:

positions of points: X, Y, Z

centers of spheres: XC, YC, ZC

radius of spheres: r  
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Help me~

Park

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