Subject: Re: Finding pairs of points within a certain distance Posted by Jeremy Bailin on Tue, 09 Apr 2013 03:18:39 GMT

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On 4/8/13 5:56 PM, ko	ensayr@gmail.com	wrote:
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> Hello all,

>

- > I have a problem that I'm trying to find an efficient way to solve.
- > I have a large list of points (on the order of 10⁸), that I need to match to a second list of points (on the order of 10⁵ points), and find all pairs that are within a certain distance from each other.

> The points are located on the surface of the Earth, so they are given in lat/lon coordinates. I have looked at functions like map_2points that can calculate the distance, but brute force way of matching them would be way too slow.

>

> I noticed a user written library in the Documents of Exelis called match sph that seem to do what I need, but I cannot find where to download it, and the website where that library was hosted seems to be down.

> I have also thought about maybe dividing the points into small chunks using something like hist nd, but was hoping that there might be an existing program for something like this already.

> Any help is greatly appreciated,

> Thanks!

>

Yes, you need match sph. No, I still haven't gotten off my ass and put it back up. I'll email it to you...

-Jeremy.