
Subject: Re: matching coordinates

Posted by [David Fanning](#) on Sun, 29 Jul 2007 13:53:08 GMT

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jradaavenport@gmail.com writes:

> Hello, I'm a long time lurker of this group, and finally have a
> problem I can't solve efficiently enough! I have coordinates for stars
> (RA and DEC for us astronomers out there), from two sources. i.e.
> (x1,y1) and (x2,y2). These lists are huge, like 150k for one and
> 5million in the other (a lot of stars!). I need to find the matches
> from these catalogs within a tolerance. I've tried a few programs
> I've found online (close_match_radec for instance) and they have not
> given me results I believe (multiple matches and such). Here is some
> horrible code I wrote just now which solves the problem VERY slowly:

Here is an article that might help:

http://www.dfanning.com/code_tips/matchlists.html

For background, you might want to read the precursor article, and one of my personal favorites:

http://www.dfanning.com/code_tips/slowloops.html

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Seppure ma de ni thui. ("Perhaps thou speakest truth.")
