Subject: Re: Find Closest Coincident Measurements In Time And Space Between Two Data Sets
Posted by Wout De Nolf on Mon, 13 Oct 2008 16:02:28 GMT
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I was wondering whether you could convert every data point
(lat,lon,date,time) in both sets to some integer value, reflecting the
time and space marging/precision and then use intersection from
http://www.dfanning.com/tips/set_operations.html

If this would work, this doesn't find the closest point in B for each
A, but the overlapping points (overlapping margins). But so does your
code, so I guess that's what you want.

On Mon, 13 Oct 2008 05:14:01 -0700 (PDT), "|Rob|" <r083r7@gmail.com>
wrote:

> I was hoping that somebody could help and apply some magic to this
> problem.
>
> I have two sets of satellite measurement data and for dataset A want
> to find the value in dataset B that are closest to it in time and
> space.

Subject: Re: Find Closest Coincident Measurements In Time And Space Between Two Data Sets
Posted by Wox on Mon, 13 Oct 2008 16:17:06 GMT
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> I was wondering whether you could convert every data point
> (lat,lon,date,time) in both sets to some integer value, reflecting the
> time and space marging/precision and then use intersection from
> http://www.dfanning.com/tips/set_operations.html
>
> If this would work, this doesn't find the closest point in B for each
> A, but the overlapping points (overlapping margins). But so does your
> code, so I guess that's what you want.

If you can't convert (lat,lon,date,time) to 1 integer, maybe you can
convert it to 4 integers and adapt SetIntersection using hist_nd and
intersect two 4D-integer datasets.

Then again, I'm not sure whether all that fits into memory.

Btw, if you have enough processing going on in one iteration, having a
FOR loop is not too bad. But I know the

garlic-sliver-bullets-lets-kill-the-evil-FOR-loop feeling ;-).