Subject: Re: Distance between two sets of datapoints
Posted by Maxwell Peck on Fri, 26 Mar 2010 22:11:38 GMT
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Thanks Ken,

It is definitely much much faster (from 30 minutes for looping only to 1 minute). It is difficult to characterise the speedup entirely because I was able to add a lot more of the calculations inside the loop, na is about 700 times larger than nb. I think I must have done something stupid the first time I tried this and looped over the other dimension hence my confusion.

Cheers,
Max

On Mar 27, 12:11 am, "Kenneth P. Bowman" <k-bow...@null.edu> wrote:
> In article
> < eb0d2a64-900b-4c9e-9599-699dcd3da...@k4g2000prh.googlegroups .com >,
> Maxwell Peck <maxjp...@gmail.com> wrote:
>
>> Thanks Ken, I'll give it a shot. I had tried a similar loop (I
>> thought) but it seemed to be very slow that is why i was looking at
>> vectorising it similar to distance_measure.
>
>>> FOR i = 0, nb-1 DO dist[0,i] = SQRT((xb[i] - xa)^2 + (yb[i] - ya)^2)
>
> This should vectorize reasonably well if na is large and nb is
> not too large.
>
> Ken