Subject: Re: Distance between two sets of datapoints
Posted by Gray on Fri, 26 Mar 2010 13:16:53 GMT
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On Mar 25, 3:38 pm, 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.
>
> Thanks
> Max
>
> On Mar 26, 6:04 am, "Kenneth P. Bowman" <k-bow...@null.edu> wrote:
>
>
>
>> In article <k-bowman-EEB2FB.09554725032...@news.tamu.edu>,
>> "Kenneth P. Bowman" <k-bow...@null.edu> wrote:
>
>>> FOR i = 0, nb-1 DO BEGIN
>>> d = SQRT((xb[i] - xa)^2 + (yb[i] - ya)^2)
>>> dist[0,i] = d
>>> ENDFOR
>
>> I just realized this could be simplified to
>
>> FOR i = 0, nb-1 DO dist[0,i] = SQRT((xb[i] - xa)^2 + (yb[i] - ya)^2)
>
>> which removes some unneeded memory access.
>
>> Ken

Take a look at JD Smith's match_2d (http://tir.astro.utoledo.edu/idl/match_2d.pro), which uses histogram to quickly find distances between lists of coordinates (and then matches them, which you don't need).