Subject: Re: x-y offsets
Posted by Jeremy Bailin on Thu, 20 May 2010 20:11:17 GMT
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> I think once you have a set of plausible distance pairs, it becomes
> a minimization problem. How about if, once you have a set of
> possible pairs from the "distogram" reverse_indices, you construct
> a function that calculates the total distance squared between
> all of the pairs and use something like POWELL to minimize it?

To be more specific, I would go with calculating the mean offset using the reverse_indices to get you close, then use MATCHALL_2D using the offset coordinates to get neighbours of each x1,y1 pair. Then you can minimize the following function for xoff,yoff:

Sum_i (min((x1_i-x2+xoff)^2 + (y1_i-y2+yoff)^2))

where i runs over x1,y1 and the minimization is over all x2,y2 points that are neighbours of x1_i,y1_i.

-Jeremy.