Subject: Re: Clustering x,y coordinates with IDL? Posted by Mort Canty on Mon, 29 Mar 2010 15:38:08 GMT

View Forum Message <> Reply to Message Am 29.03.2010 11:44, schrieb Maxwell Peck: > Hi All, This is not strictly an IDL question but I'm hoping it's > something simple to do and I'm not missing something painfully obvious! I have a set of x,y values e.g. > > x = [34.5,36.7,35.6,80.5,81.2,79.3]y = [50.6,51.2,53.2,48.5,50.3,51.2]> The values will be sparsely clustered overall but tightly within an > approximate 10x10 box. What I'd like to do is replace each clusters > values with the average x,y value. This doesn't have to be 'perfect', the edges aren't that important. > My initial thought was to use hist_2d or hist_nd to try and calculate > the 2d histogram with a binsize of 10 and use this to average the > values but I can't get it to work. My other thought was using griddata or something similar, or at worst generating an approximate binary image and running a window over it. > > Any advice or suggestions would be appreciated. > Regards > > > Max

The IDL function CLUSTER() implements k-means clustering. I think that's what you want.

Mort