Subject: Re: binning a point clouds in the xy plane
Posted by David Fanning on Sat, 21 Dec 2013 00:06:01 GMT
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Nafiseh M writes:

> thanks a lot for the answer,
>
> But I thought with indicesz, i would have my new x and y for mean z values. I cannot figure it how can I calculate them?

Are you talking about how you calculate the new X and Y vectors that describe the binned data? I think I would do it like this. Given that you have this (and note I'm leaving out the max values since they will not be used if you are specifying the bin size, as you are):

```
hist_xy=hist_nd(transpose([[x],[y]]),[0.05,0.05],$
   min=[min(x),min(y)], reverse_indices=ri)
```

I would do this, where I add half a bin size to put the X and Y vector values in the center of the bin:

```
dims = Size(hist_xy, /Dimensions)
xvector = Findgen(dims[0])*0.05 + Min(x) + 0.025
yvector = Findgen(dims[1])*0.05 + Min(y) + 0.025
```

> when I write
> print, indicesz
> I will get just some number which I don't know what are they.

They are the indices of the Z values that were placed into that bin.

Cheers,

David
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Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")