Subject: Number of points within a rectangular region
Posted by Isa Usman on Fri, 31 Oct 2003 18:30:07 GMT

Hello,

I'm trying to get the indices to the points that fall within a rectangular
region. I'm aware of David Fanning's INSIDE routine that does this but
because I have got 100,000 points its going to involve a lot of looping. So
I decided to use the HIST_ND with reverse indices but its not giving me the
right results. What am I missing?

Thanks in advance.

Isa

IDL> x = [0.5,-0.5,-0.5,0.5]

IDL> y = [0.5,0.5,-0.5,-0.5]

IDL> z = transpose([[x],[y]])

IDL> result = hist_nd(z,min = [0,0], max = [1,1], nbins = 1, reverse_indices
= ri)

print, ri[ri[0]:ri[1]-1]

0 1 2 3