Subject: Re: Random selection of pairs
Posted by Michael Galloy on Sun, 12 Nov 2006 04:30:13 GMT

Kenneth P. Bowman wrote:
> It will be much simpler, and probably much quicker, to read all
> of the pairs and then pick 100 randomly, like this script named
> select_random:
>
> x = findgen(2, 1000)   ;create fake lon-lat data
> r = RANDOMU(seed, 1000)   ;generate random numbers
> j = (SORT(r))[0:9]   ;find indices of 10 smallest numbers

Yes, I think this is the way to do it.

It won't help here with only 1000 elements, but I have a routine to get
the indices of the n smallest (or largest) values in an array. It uses
HISTOGRAM and REVERSE_INDICES instead of the SORT in the line

   j = (SORT(r))[0:9]

The article describing it is at:

 http://michaelgalloy.com/2006/06/02/finding-the-n-smallest-e lements-in-an-array.html

Mike
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