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Subject: Re: Randomize array order

Posted by [David Streutker](#) on Thu, 26 Jul 2007 16:57:31 GMT

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How about a Knuth shuffle?

(Disclaimer: I'm not a statistician; I just found it on Wikipedia.)

```
function kunsort, array
  na = n_elements(array)
  random = randomu(seed,na) * (na - array - 1) + array
  for i=0L,na-2 do array[i] = array[random[i]]
  return, array
end
```

Added to Vince's code (last column):

0	100000	0.0619998	0.0780001	0.0320001
1	166810	0.125000	0.125000	0.0780001
2	278256	0.282000	0.218000	0.141000
3	464158	0.547000	0.406000	0.235000
4	774263	1.07800	0.657000	0.390000
5	1291549	1.93700	1.09400	0.703000
6	2154435	3.51500	1.89100	1.20300
7	3593812	6.34400	3.11000	1.98400
8	5994841	11.5470	5.21800	3.36000
9	10000000	20.3750	8.67200	5.60900

Windows XP, dual 2.66 GHz, 3 GB RAM, IDL 6.3

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