
Subject: Re: vectorization challenge! (help!)

Posted by [MarioIncandenza](#) on Thu, 19 Jul 2007 17:56:51 GMT

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Let's throw some memory at the problem, shall we?

Note: this is completely untested.

```
n = 24
```

```
npeeps = 50
```

```
gn1 = findgen(n,npeeps)
```

```
gn2 = findgen(n,npeeps)
```

```
cutoff = .01
```

```
; here is the array-based version of your task
```

```
swap=randomu(seed,n,npeeps)
```

```
bswap=swap le cutoff; binary
```

```
nswap_per_row=total(bswap,1); number to swap in each row
```

```
nswap_mask=rebin(transpose(nswap_per_row),n,npeeps); each cell has N  
to swap in that row
```

```
swapi=reverse(lindgen(n,npeeps) mod n),1); each row N-1 to 0
```

```
bswapi=swapi lt nswap_mask; if NSWAP_PER_ROW=N, swaps entire row
```

```
fswap=where(bswapi,nfswap)
```

```
if(nswap gt 0) then gn1[fswap] = gn2[fswap]
```
