

3. Example

In one window:

```
$ ./mem 12000                                <<-- time 1
allocating 12582912000 bytes (12000.00 MB)
  number of integers in array: 3145728000
loop 0 in 5604.98 ms (bandwidth: 2140.95 MB/s)
loop 1 in 2092.22 ms (bandwidth: 5735.54 MB/s)
loop 2 in 2088.83 ms (bandwidth: 5744.85 MB/s)
loop 3 in 2103.87 ms (bandwidth: 5703.77 MB/s)
^C                                           <<-- time 2
$
```

In another window:

```
$ vmstat 1
procs -----memory-----  ---swap--  -----io----- -system--  -----cpu-----
 r  b   swpd   free   buff   cache    si   so    bi    bo    in   cs us  sy id wa st
 1  0  827184 8436620 4084564 2224596     0    2   118    61    3    4  1  1 97  0  0
 0  0  827184 8436496 4084564 2224596     0    0     0     0   181  534  1  0 99  0  0
 0  0  827184 8436364 4084564 2224588     0    0     0     0   307 1054  2  1 96  0  0
 1  0  827184 8441324 4084564 2219468     0    0     0     0   318 1452  4  1 96  0  0
 1  0  827184 7307468 4084564 2224956     0    0     0    127   380  991  8  7 85  0  0  <<-- time 1
 1  0  827184 5073352 4084564 2225108     0    0     0     0   459  773 14 12 74  0  0
 1  0  827184 2856232 4084564 2224596     0    0     0     0   468  503 14 12 74  0  0
 1  0  827184  616916 4084564 2224596     0    0     0     0   463  467 15 11 74  0  0
 2  0  827184  165356 3384604 1191244     0   40     0    43   798 1245 13 20 66  0  0
 2  0  838704  153824 1897456  534920     0 11480   168 11516 1045 1368 13 25 62  0  0
 1  0  840496  258872 1662480  511156     0 1716   794  1717   700  952 25  4 71  1  0
 1  0  840496  258624 1662500  511664     0    0   264     0   458  499 26  0 74  0  0
 1  0  840496  258624 1662632  511664     0    0   132     0   469  468 25  0 74  0  0
 1  0  840496  258624 1662632  511664     0    0     0     0   439  504 25  0 74  0  0
 1  0  840496 10478440 1662632 513316     0    0  1652     0   490  817 17  9 74  0  0  <<-- time 2
 0  0  840496 12568236 1662632 513384     0    0    60     0   253  609  0  3 97  0  0
 0  0  840496 12573568 1662632 507976     0    0     0     3   183  570  1  0 99  0  0
 0  0  840496 12568112 1662632 513268     0    0     0     0   245  980  2  1 98  0  0
^C
$
```