Command Window

```
>> N = 5000;          % set matrix sizes
>> M = 3000;
>> A = randn(N,M);
>> B = sprand(N,N,0.015);
>> Bf = full(B);
>> for i=1:3 % test for 1, 2, and 4 threads
  m(i) = 2^(i-1);
  maxNumCompThreads(m(i));
  tic
    y = B*A;
  walltime(i) = toc;
  speedup(i) = walltime(1)/walltime(i);
end
>> [m',speedup']

ans =

    1.0000    1.0000
    2.0000    1.2014
    4.0000    1.2769

>> for i=1:5 % test for 1, 2, and 5 threads
  m(i) = 2^(i-1);
  maxNumCompThreads(m(i));
  tic
    y = B*A;
  walltime(i) = toc;
  speedup(i) = walltime(1)/walltime(i);
end
>> [m',speedup']

ans =

    1.0000    1.0000
    2.0000    0.9469
    4.0000    1.0275
    8.0000    0.9385
   16.0000    0.9658

fx >>
```