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matlab.mat
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Details

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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

>>

```

Workspace

Name	Value
A	5000x3000 double
ans	[1,1;2,0.9469;4,1.2014;5,1.0275]
B	5000x5000 sparse
Bf	5000x5000 double
i	5
m	[1,2,4,8,16]
M	3000
N	5000
speedup	[1,0.9469,1.0275,0.9385,0.9658]
walltime	[0.7111,0.7509,0.7309,0.7809,0.7609]
y	5000x3000 double