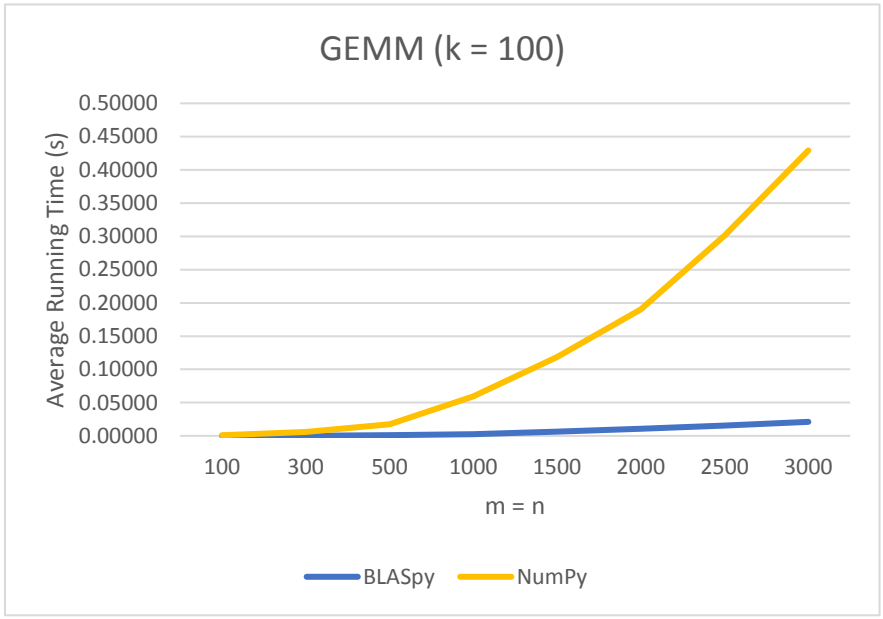
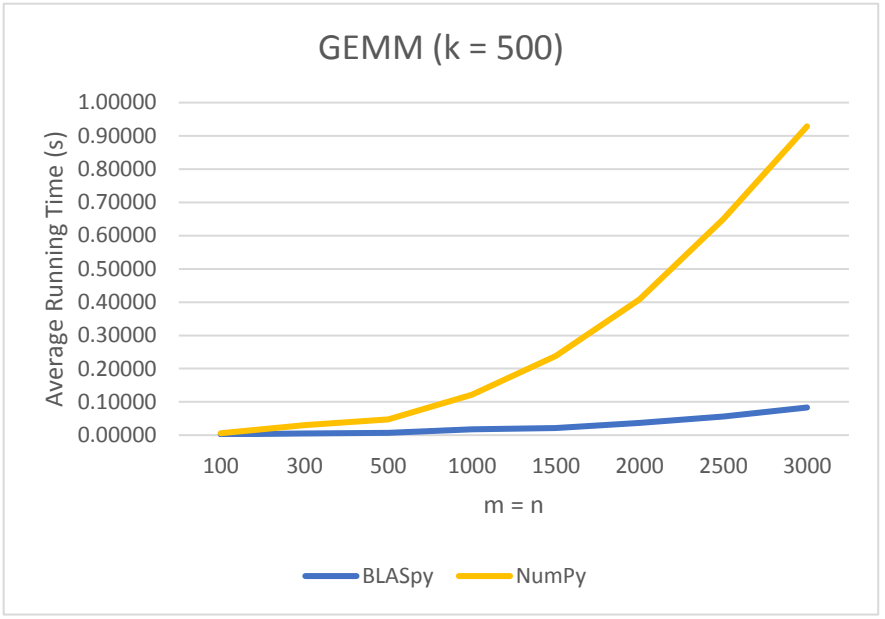
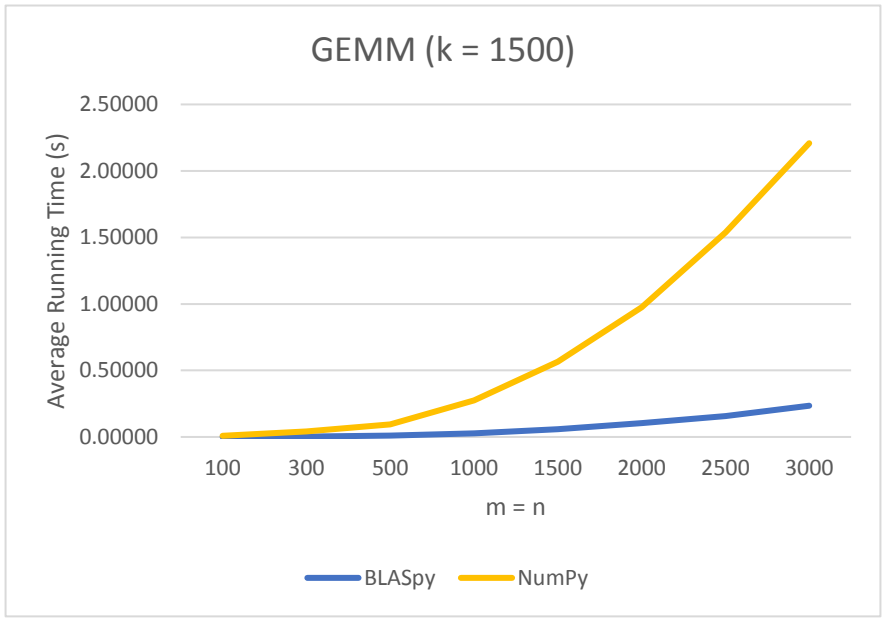
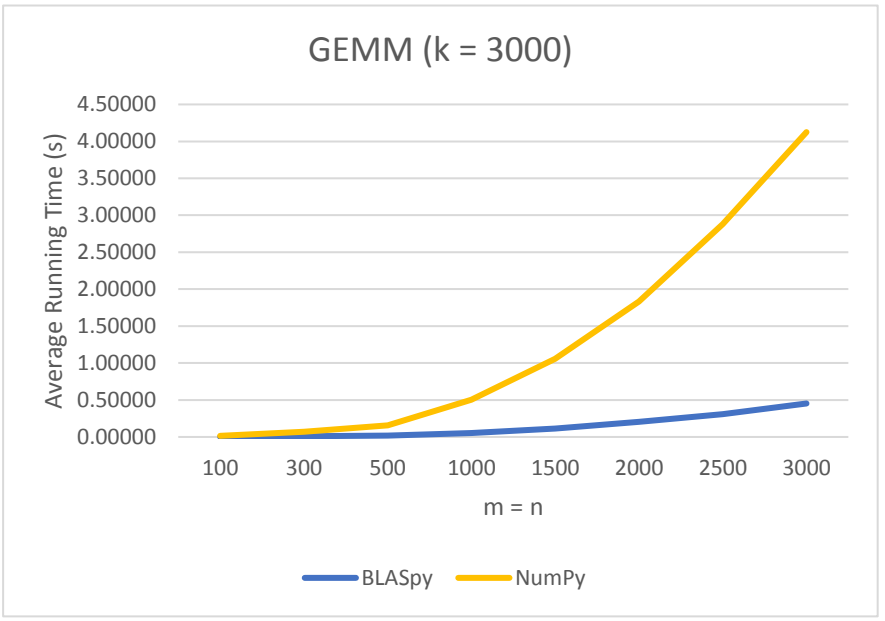

GEMM (k = 100)
Average Running Time (s)
0.50000
0.45000
0.40000
0.35000
0.30000
0.25000
0.20000
0.15000
0.10000
0.05000
0.00000
100
300
500
1000
1500
2000
2500
3000
m = n
BLASpy
NumPy


GEMM (k = 500)
Average Running Time (s)
1.00000
0.90000
0.80000
0.70000
0.60000
0.50000
0.40000
0.30000
0.20000
0.10000
0.00000
100
300
500
1000
1500
2000
2500
3000
m = n
BLASpy
NumPy


GEMM (k = 1500)
Average Running Time (s)
2.50000
2.00000
1.50000
1.00000
0.50000
0.00000
100
300
500
1000
1500
2000
2500
3000
m = n
BLASpy
NumPy


GEMM (k = 3000)
Average Running Time (s)
4.50000
4.00000
3.50000
3.00000
2.50000
2.00000
1.50000
1.00000
0.50000
0.00000
100
300
500
1000
1500
2000
2500
3000
m = n
BLASpy
NumPy

K = 100		
M = N	BLASpy	NumPy
100	0.00012	0.00098
300	0.00030	0.00596
500	0.00095	0.01721
1000	0.00231	0.05918
1500	0.00624	0.11834
2000	0.01090	0.19011
2500	0.01544	0.30135
3000	0.02109	0.42914

K = 300		
M = N	BLASpy	NumPy
100	0.00017	0.00193
300	0.00207	0.01361
500	0.00231	0.03466
1000	0.00734	0.09905
1500	0.01313	0.17625
2000	0.02334	0.29770
2500	0.03553	0.47450
3000	0.11958	1.06872

K = 500		
M = N	BLASpy	NumPy
100	0.00230	0.00575
300	0.00473	0.03051
500	0.00702	0.04727
1000	0.01717	0.12185
1500	0.02120	0.23822
2000	0.03704	0.40800
2500	0.05635	0.65015
3000	0.08320	0.92874

K = 1000		
M = N	BLASpy	NumPy
100	0.00044	0.00601
300	0.00376	0.03407
500	0.00701	0.07384
1000	0.02066	0.19948
1500	0.04106	0.40001
2000	0.07027	0.69309
2500	0.10676	1.09314
3000	0.15712	1.56187

K = 1500		
M = N	BLASpy	NumPy
100	0.00069	0.00892
300	0.00377	0.04170
500	0.00986	0.09405
1000	0.02815	0.27531
1500	0.05838	0.56580
2000	0.10325	0.97521
2500	0.15711	1.53811
3000	0.23486	2.20829

K = 2000		
M = N	BLASpy	NumPy
100	0.00118	0.01104
300	0.00518	0.05518
500	0.01328	0.11320
1000	0.03725	0.34951
1500	0.07741	0.72561
2000	0.13510	1.25983
2500	0.20912	1.99891
3000	0.30814	2.84324

K = 2500		
M = N	BLASpy	NumPy
100	0.00144	0.01296
300	0.00713	0.06427
500	0.01562	0.13425
1000	0.04671	0.42568
1500	0.09702	0.89014
2000	0.16673	1.54838
2500	0.25537	2.43708
3000	0.39197	3.48879

K = 3000		
M = N	BLASpy	NumPy
100	0.00176	0.01513
300	0.00909	0.07171
500	0.01714	0.15539
1000	0.05491	0.50192
1500	0.11525	1.05637
2000	0.20339	1.83329
2500	0.30761	2.88168
3000	0.45307	4.12512

Timing data was collected on 8/31/14
Timing data was calculated using UTCS lab machines "peeps" and "peanut-mms" with no other users at the time.
All timing data is in seconds. Entries are the average running time of 160 trials for the given size.
160 trials were completed per size. 20 of each combination of float64/float32, A trans/no trans, B trans/no trans
Every trial used a different set of random matrices/scalars, but both BLASpy and NumPy used the same set for that trial
Whether the trial was even or odd determined whether BLASpy or NumPy would compute the product first