CENG 342 - Homework 3 Report

Matrix 1 Results(132*132):

Number of Cores	Elapsed Time(s)	Speed-Up (S=T _{serial} /T _{parallel})	Efficiency (E=T _{serial} /p*T _{parallel})
1	0.000092	1	1
2	0.000112	0.821428	0.821428
3	0.000152	0.605263	0.201754
4	0.000222	0.414414	0.103603

Matrix 2 Results(1032*1032):

Number of Cores	Elapsed Time(s)	Speed-Up	Efficiency
1	0.005545	1	1
2	0.005272	1.051783	0.525891
3	0.004120	1.345873	0.448624
4	0.004503	1.231401	0.307850

- iris@iris-VirtualBox:~/Documents/CENG 342 Parallel Programming/CENG342/hwl\$ mpirun -n 1 ./19050111032 132 132 output.txt
 Elapsed time is 0.000092 seconds for parallel mxv with 1 processes
 iris@iris-VirtualBox:~/Documents/CENG 342 Parallel Programming/CENG342/hwl\$ mpirun -n 2 ./19050111032 132 132 output.txt
- Elapsed time is 0.000115 seconds for parallel mxv with 2 processes
- iris@iris-VirtualBox:~/Documents/CENG 342 Parallel Programming/CENG342/hwl\$ mpirun -n 3 ./19050111032 132 132 output.txt Elapsed time is 0.000152 seconds for parallel mxv with 3 processes iris@iris-VirtualBox:~/Documents/CENG 342 Parallel Programming/CENG342/hwl\$ mpirun -n 4 ./19050111032 132 132 output.txt
- Elapsed time is 0.000222 seconds for parallel mxv with 4 processes iris@iris-VirtualBox:~/Documents/CENG 342 Parallel Programming/CENG342/hwl\$ mpirun -n 1 ./19050111032 1032 1032 output.txt
- Elapsed time is 0.005545 seconds for parallel mxv with 1 processes iris@iris-VirtualBox:~/Documents/CENG 342 Parallel Programming/CENG342/hwl\$ mpirun -n 2 ./19050111032 1032 1032 output.txt
- iris@iris-VirtualBox:~/Documents/CENG 342 Parallel Programming/CENG342/hwl\$ mpirun -n 3 ./19050111032 1032 1032 output.txt Elapsed time is 0.004120 seconds for parallel mxv with 3 processes iris@iris-VirtualBox:~/Documents/CENG 342 Parallel Programming/CENG342/hwl\$ mpirun -n 4 ./19050111032 1032 1032 output.txt
- iris@iris-VirtualBox:~/Documents/CENG 342 Parallel Programming/CENG342/hw1\$ 🛚