CSE 179 Lab 3

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Task1

* Simple matrix multiplication (B=Ax)
* Used random for the A and x values (didn’t use N)
  + #Programa omp for schedule (static/ dynamic/ guided)
  + Output of matrixvector.c
    - C[0] = 16.00 / C[1] 36.00
  + Output of matrixvector.c (static)
    - C[0] = 16.00 / C[1] 36.00
  + Output of matrixvector(dynamic)
    - C[0] = 16.00 / C[1] 36.00
  + Output of matrixvector(guided)
    - C[0] = 16.00 / C[1] 36.00

Task2

* Output of prod\_cons.c
  + 0.000329 seconds. The sum is 5030.674031
* Output of Parallelized prod\_cons.c
  + 0.000000 seconds. The sum is 5030.674031
* Result
  + Through parallelizing the prod\_cons, the execution time decreases.

Task3

* Output of linked.c
  + Compute Time: 24.416870 seconds
* Output of Parallelized linked.c (export OMP\_NUM\_THREADS=4)
  + Compute Time: 9.117665 seconds
* Output of Parallelized linked.c (export OMP\_NUM\_THREADS=2)
  + Compute Time: 13.783651 seconds
* Output of Parallelized linked.c (list size =2)
  + 1.779647 seconds