**EE451 PA2**

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P1a

﻿gcc -O3 -o problem1a problem1a.c -fopenmp

﻿srun -n1 -c4 ./problem1a

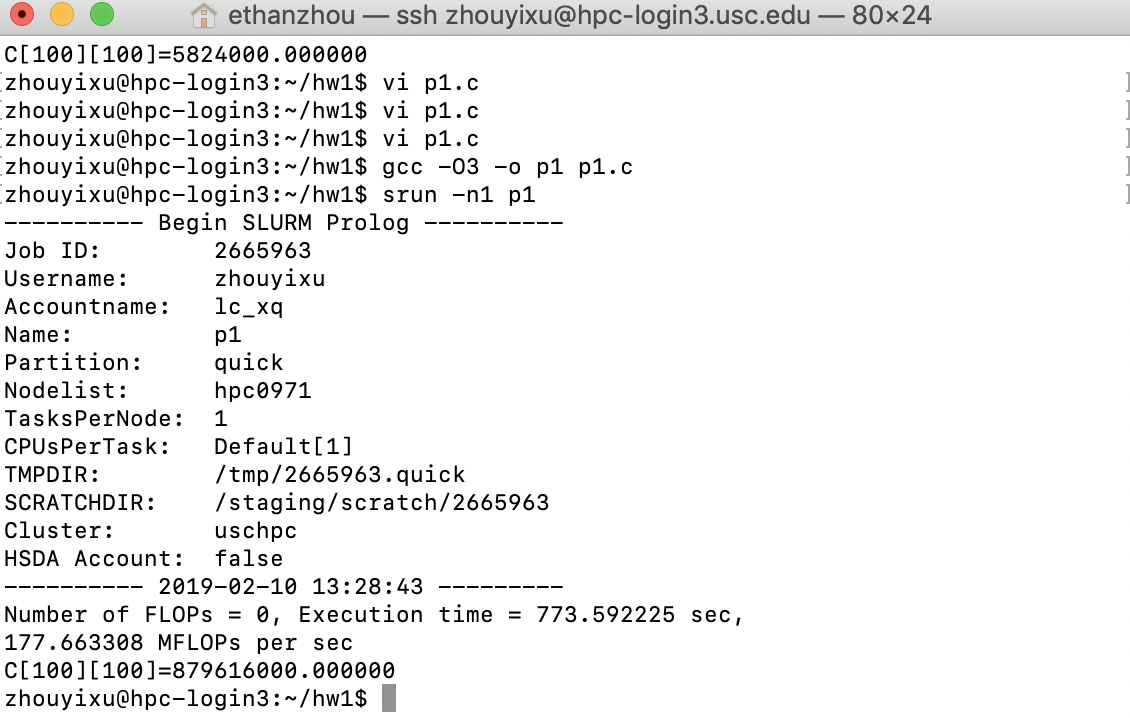


Figure . Serial

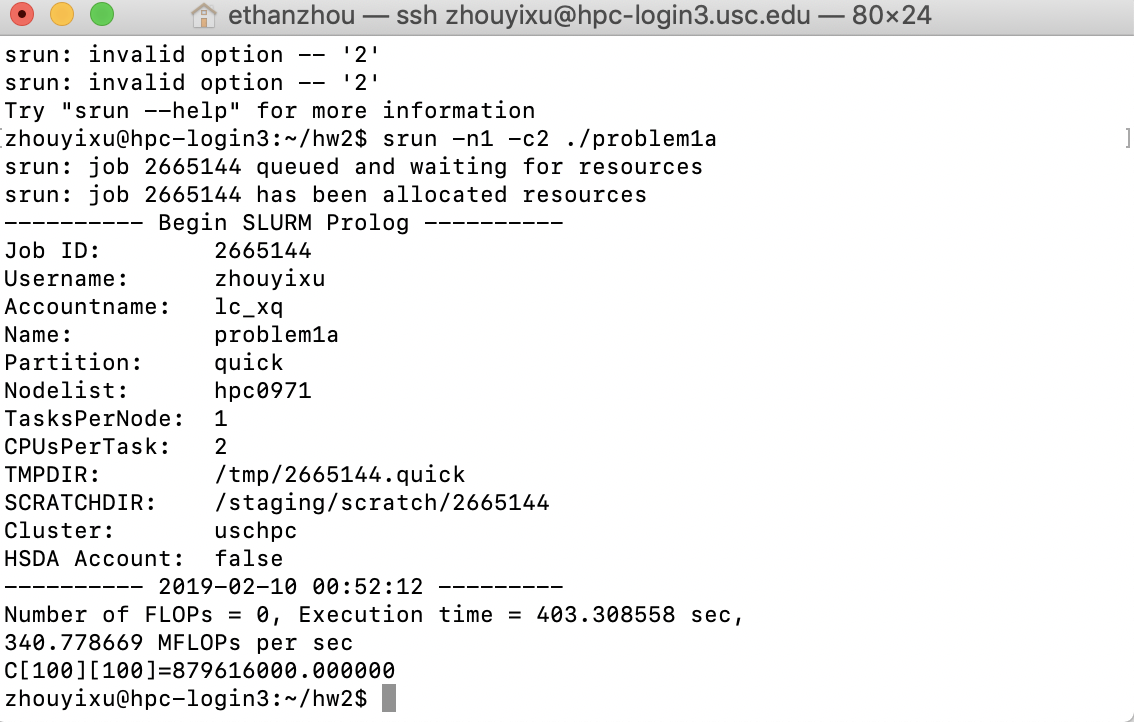


Figure . OpenMP 2 threads

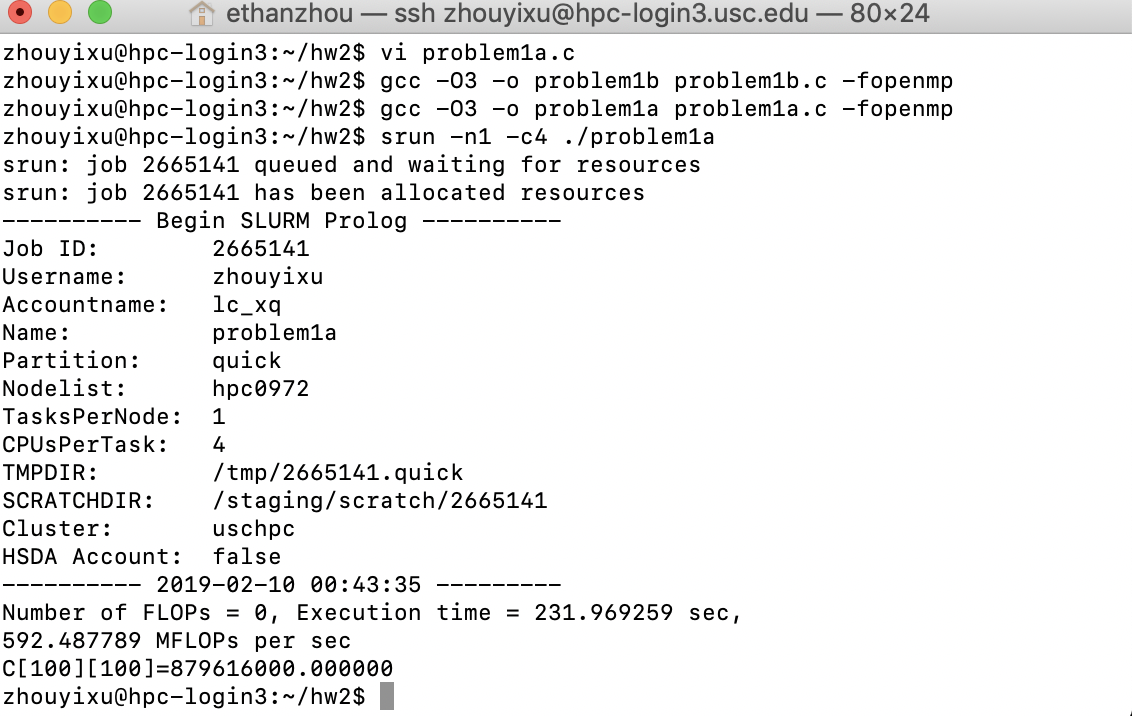


Figure . OpenMP 4 threads

The execution time is inversely proportional to the number of threads used.

P1b

gcc -O3 -o problem1b problem1b.c -lpthread

﻿srun -n1 -c4 ./problem1b

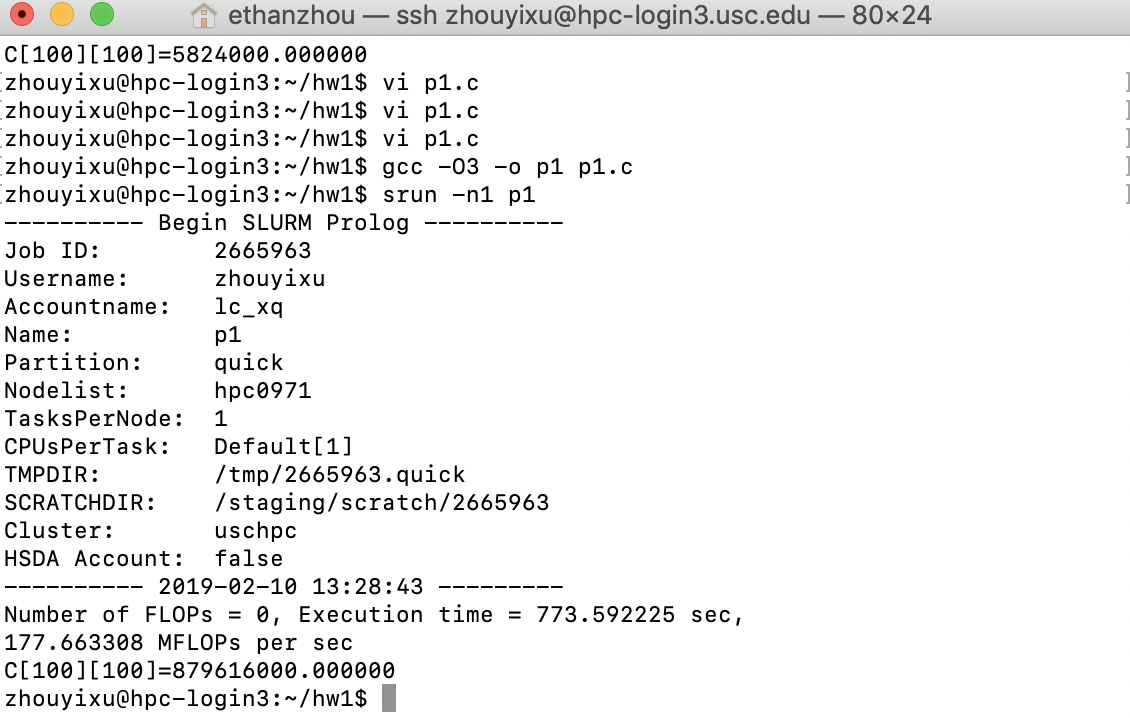


Figure . Serial

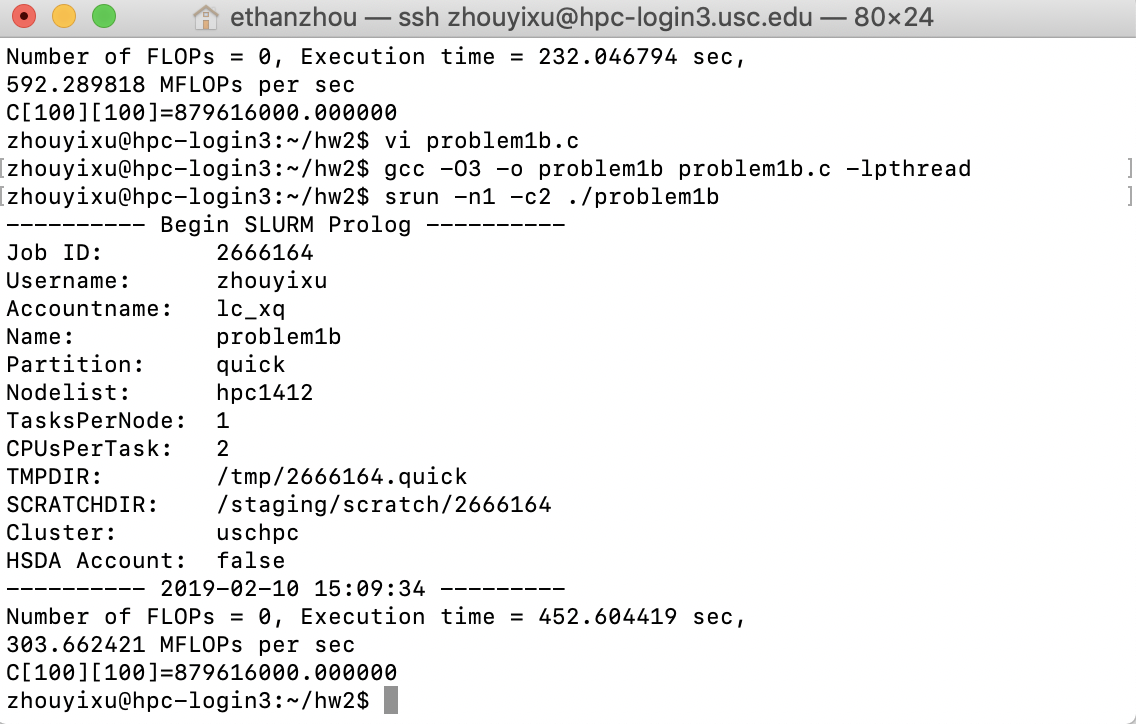


Figure . Pthread 2 threads

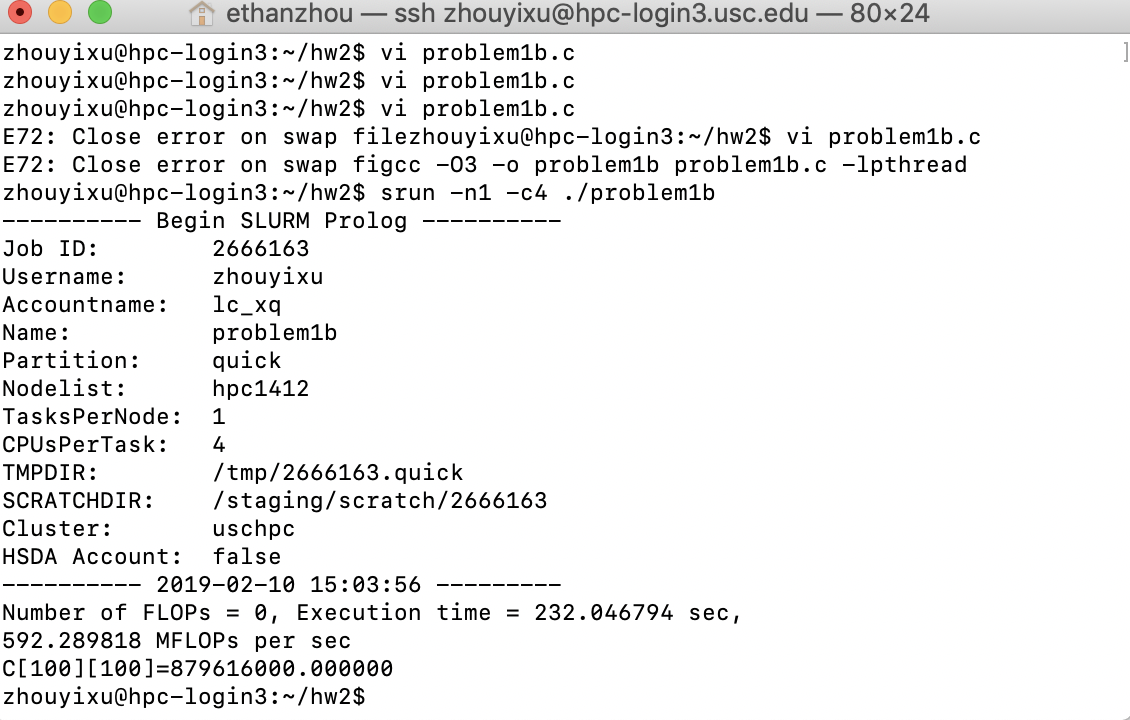


Figure . Pthread 4 threads

The execution time is inversely proportional to the number of threads used.