

Analysis:

Intro:

We tried to find out which way of OMP programming is faster. Apply 10 thread on each task, each task has the same matrix.

Process:

Set size of matrix as 1000 by 1000, then use CPU_TIME to get how long the system take to finish all the calculation.

Result:

Do Loop: time cost: 11.008327

MATMUL: time cost: 1.3657920

Conclusion:

Use MatMul and open MP workshare is faster. Because MatMul have better parallel structure than do loop. Also MINLOC doesn't have too much data dependency problem.