**EECS245 LAB2**

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P1：

1.1

**Configuration：**

Number of elements ： 10000.

Initial values are all 1s.

Chunk size is 20.

num\_threads(NUM\_MAX\_THREADS) - NUM\_MAX\_THREADS 12

**Execution time for static：**

num of chunk is 501

Static Schdedule : total time is 4 ms

number of elements is 10000. Values are all 1 .

Chunk size is 20

**Execution result for dynamic：**

num of chunk is 501

Dynamic Schdedule : total time is 5 ms

number of elements is 10000. Values are all 1 .

Chunk size is 20

1.2

**Configuration：**

Number of elements ： 10000.

Initial values are all 1s.

Chunk size is 20.

#pragma omp parallel for num\_threads(x) schedule(static,CHUNK\_SIZE)

**Execution time for static：**

|  |  |
| --- | --- |
| x | Time(ms) |
| 2 | 1 |
| 4 | 2 |
| 8 | 3 |
| 12 | 4 |

#pragma omp parallel for num\_threads(y) schedule(dynamic,CHUNK\_SIZE)

**Execution time for dynamic：**

|  |  |
| --- | --- |
| y | Time(ms) |
| 2 | 6 |
| 4 | 6 |
| 6 | 8 |
| 8 | 7 |
| 12 | 5 |

P2

Initially I can’t compile the program on Windows Platform until I figure out how to compile this on MacOS. Due to limited time left, I only add some of the directives into source.