## Report on Labwork 1

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### 1 How you implement the conversion?

• I added #pragma omp parallel before the loop to convert from sequential CPU to parallel using OpenMP:

## 2 What's the speedup?

• Using OpenMP parallel computed one third times compared to CPU.

```
Labwork 1 CPU ellapsed 374.1ms
Labwork 1 using OpenMP ellapsed 108.9ms
```

# 3 Try experimenting with different OpenMP parameters?

• atomic:

```
Labwork 1 CPU ellapsed 444.9ms
Labwork 1 using OpenMP ellapsed 107.1ms
```

### critical

Labwork 1 CPU ellapsed 372.0ms Labwork 1 using OpenMP 126.2ms

### • master

Labwork 1 CPU ellapsed 268.5ms Labwork 1 using OpenMP ellapsed 267.3ms

### • single

Labwork 1 CPU ellapsed 429.3ms

Labwork 1 using OpenMP ellapsed 109.4ms