

Programowanie Równoległe na Architekturach Wielordzeniowych

Parallel programming for multi-core architectures

2023/2024

L5

Task:

Implement a multi-threaded parallel program, which computes the sum of randomly generated matrices using OpenMP. Use one of proposed synchronization method where needed. Program should be faster than sample linear solution provided at : <https://codepal.ai/code-generator/query/jRrU5Olf/c-code-generate-random-matrix-sum>

Compilation of samples:

```
gcc -fopenmp sample.c -o sample
```

```
gcc -fopenmp sampleSum.c -o sampleSum
```

Additional sources:

<https://www.openmp.org/spec-html/5.0/openmpse25.html>