

Parallel programming

Lab2

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Eje1

Time: 23.868

Eje2

Time: 1.806

In exercise 2 we used parallel programming with unlimited number of threads, thanks to that the program is much faster

Eje3

Time: 6.375

In exercise 3 we limited the number of threads to 4. 4 threads were not enough to achieve better results than exercise 2. With 4 threads, results were almost 4 times faster than with 1 thread (exercise 1)

Eje4

Time: 6.313

In Exercise 4 we used semaphore to block the consuming threads. In that way, as soon as the list has an element to download, consumers can start working instead of waiting for producers to finish

Eje5

Time: 6.212

In exercise 5 we limited the length of the list to avoid excessive memory consumption, thanks to that the program uses less memory while time of the execution stays the same