Task 3 part b

Drug Design and DNA in Paralllel

dd\_serial.cpp

(No OpenMp to solve the problem)

First, we download the folder requested and create a new directory “sequential”, and we extract the file we need into it. After that, we type the codes and successfully compile “dd\_serial”. Then, we create a new directory “openmp1” and did as the instruction says but we got an error which tells us that we are missing the TBB library.

We contacted TA and professor about the problem we had and he told us to install the TBB library.

We searched for tbb lib and install it.

First time, we failed on installation

When we tried the second method it worked

Real time

|  |  |
| --- | --- |
| Implementation | Time(s) |
| dd\_serial | 123.47 |
| Openmp1 | 0.02 |
| Threads1 | 0.02 |

openmp2: 0.02

openmp3 0.04

openmp4 0.21

threads2: 0.02

threads3: 0.04

threads4 0.18

2.3

1. when the threads number goes up, dd\_threads take less time
2. 121 liensfor omp  
   87 lines for serial

120 lines for threads

1. Omp 0.93s

Threads 0.69s

1. Omp 69.03

Threads 44.08