

# Assignment 1 Report

Subject: ECE 284 - Parallel Computing in Bioinformatics

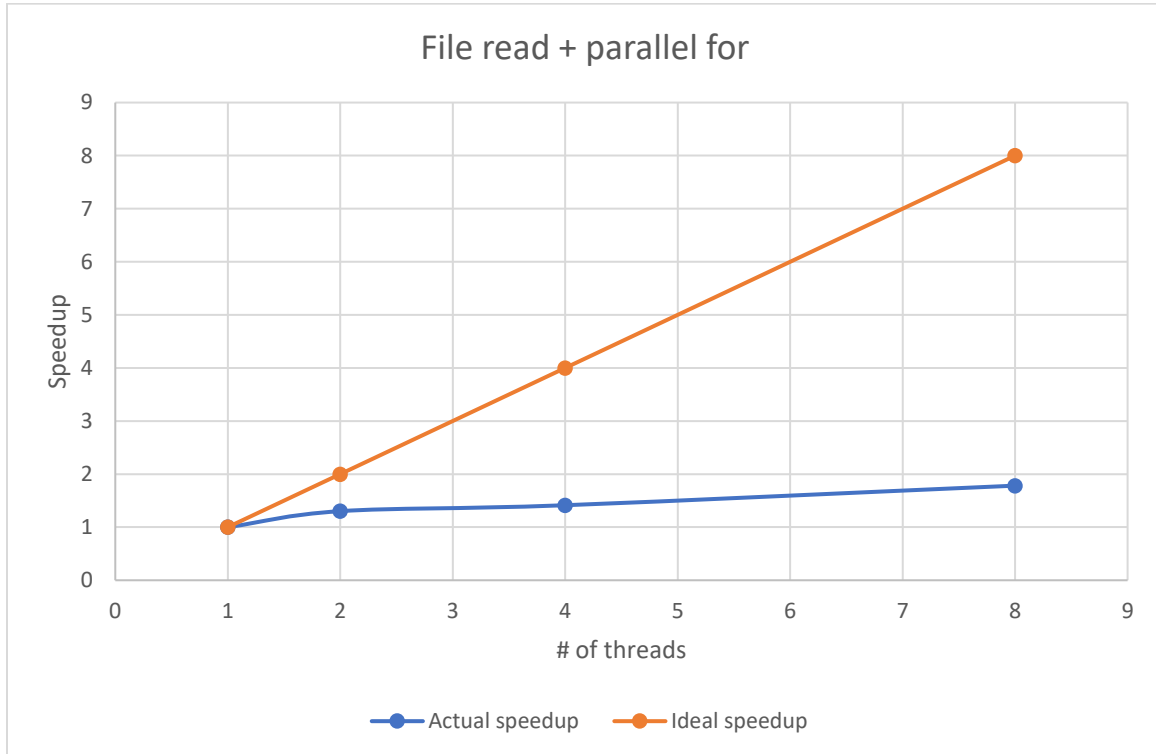
Submitted by: Ashwin Agesh Somanathan (A59025915)

## Parallelizing two-bit compression of DNA sequences

Execution time for original code without parallelization: 74ms

Thread performance after parallelization:

CPU Threads	Exec time (ms)
1	64
2	41
4	29
8	25



The given main.cpp file profiles the twoBitCompress() along with the time taken to read raw data from file. To get a clearer picture of how twoBitCompress() alone is affected with the implementation of parallelization, timing the function separately yielded the following results:

