Parallel & Concurrent Programming Programming Assignment 5 Report

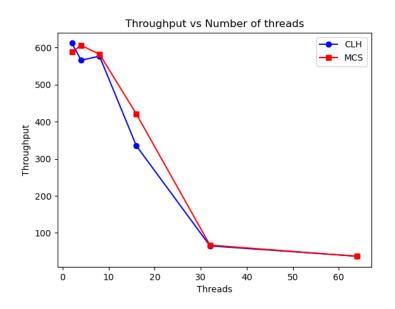
Thupten Dukpa ES20BTECH11029

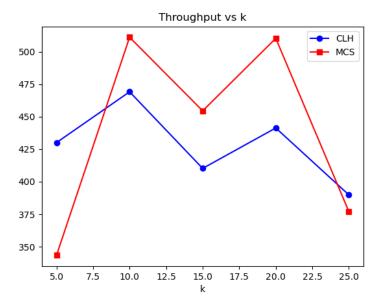
In each of the CLHLock and MCSLock programs, there is a Lock class with pure virtual functions lock() and unlock() which are inherited and overwritten. QNode is defined as a struct. The CLHLock and MCSLock classes are then implemented according to the book. The main function reads the inputs, creates threads each of which calls the testCS() function.

Sample output

It is clear that in each of these files, no other thread enters the critical section when a particular thread holds it, i.e, there is no 'Entry' or 'Exit Request' interleaving with other threads.

Throughput vs number of threads and k:





Average Entry time vs number of threads and k:

