

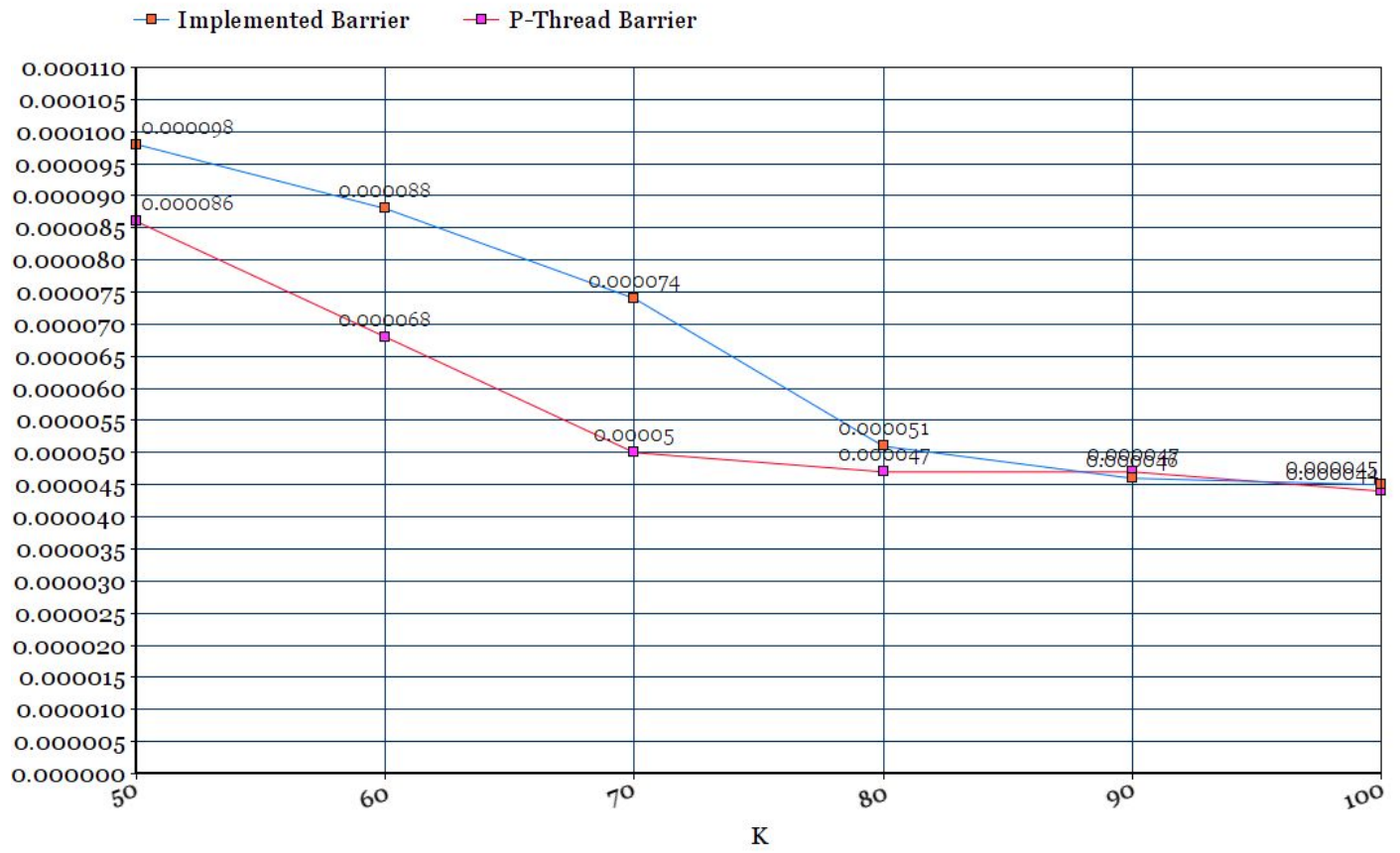
# Assignment 4 Report Operating Systems

Need to Implement Barriers using Semaphores in C++.

First initialise the barrier to number of threads. Then create n threads and pass them to testBarrier function. testBarrier function calls barrier\_point(). When all the threads reach the barrier\_point, a signal is given to resume a thread. This thread will release another thread and eventually all threads will be released. This is done by using semaphore barrier which checks if a thread reaches its barrier point and a semaphore mutex which locks variable count.

**Performance comparison with pthread barrier.**

Average Time v/s k for N=8



AVERAGE TIME V/S N FOR K=70

