

WRITEUP

Robert Hu

CruzID: ryhu

1 Testing

1. N/A

2 Questions

1. Multiple threads allows the program to run multiple processes simultaneously and therefore allowing the program to increase the amount of throughput at runtime. This causes the runtime for running with multi threading to be faster than running with a single thread.
2. If multiple threads reach their critical region at the same time, the system will suffer from bottlenecking. Threads usually increase the performance of a program up to a certain point before they start to slow down the system. In order to increase concurrency, there are a couple of ways such as decreasing the number of threads or increasing the amount of processor resources. In our case, increasing the number of worker threads available to work can increase the concurrency.