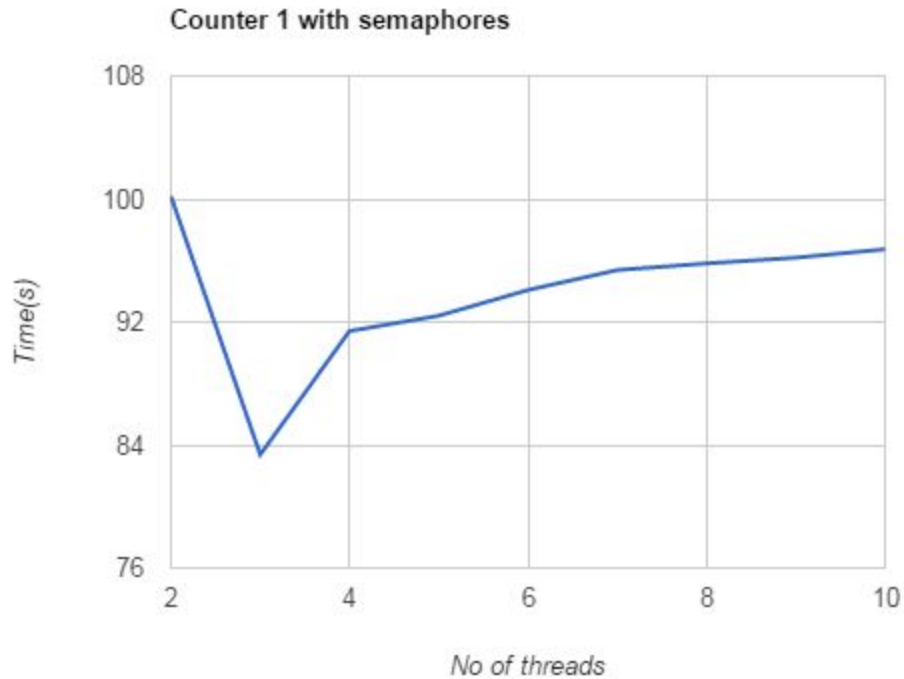


# Plot for counter 1 with semaphores

Palash Bansal, 2014072



- In the performance graph, it can be seen that, as we increase the number of threads, the performance decreases constantly, with the exception in case of 2 threads. This decrease is because as we increase the number of threads, the overhead of context switching increases, and hence the performance drops. In case of 2 threads, the time is very high because of some reason, which (may) be because, the program is run in VM and the 2 cores being used are virtual cores i.e only 1 physical core is being used, and hence due to a lot of overhead in context switching, the time is very high.
  - For the correctness, the final value that is obtained is correct, and is dot 1 billion in every case, the value is sometimes a slight less than 1 billion because of integer division of work between the threads, but we can say that the value obtained is always correct.
-