COMPENG 4DK4 Lab 4 Report

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November 13, 2022

Random Number Generator Seeds

For the experiments in this lab, we used the same set of 8 random number seeds for all experiments. Experiment 1 instructs us to include runs with our *McMaster Student ID numbers* as our seeds. We used our *McMaster IDs* and shifted them by one digit at a time to create 4 different seeds from each our IDs, for a total of 8 different seeds. All the random number generator seeds can be seen in Table **??**. In the C code used for the experiments, leading zeroes are removed.

400188200	400190637
001882004	001906374
018820040	019063740
188200400	190637400

Table 1: Random Number Generator Seeds

Experiment 2

Experiment 3

Experiment 4

Experiment 3

Figure 1: Experiment 2: Mean Delay vs. Packet Arrival Rate with 10 Stations

Mean Delay vs. PACKET_ARRIVAL_RATE
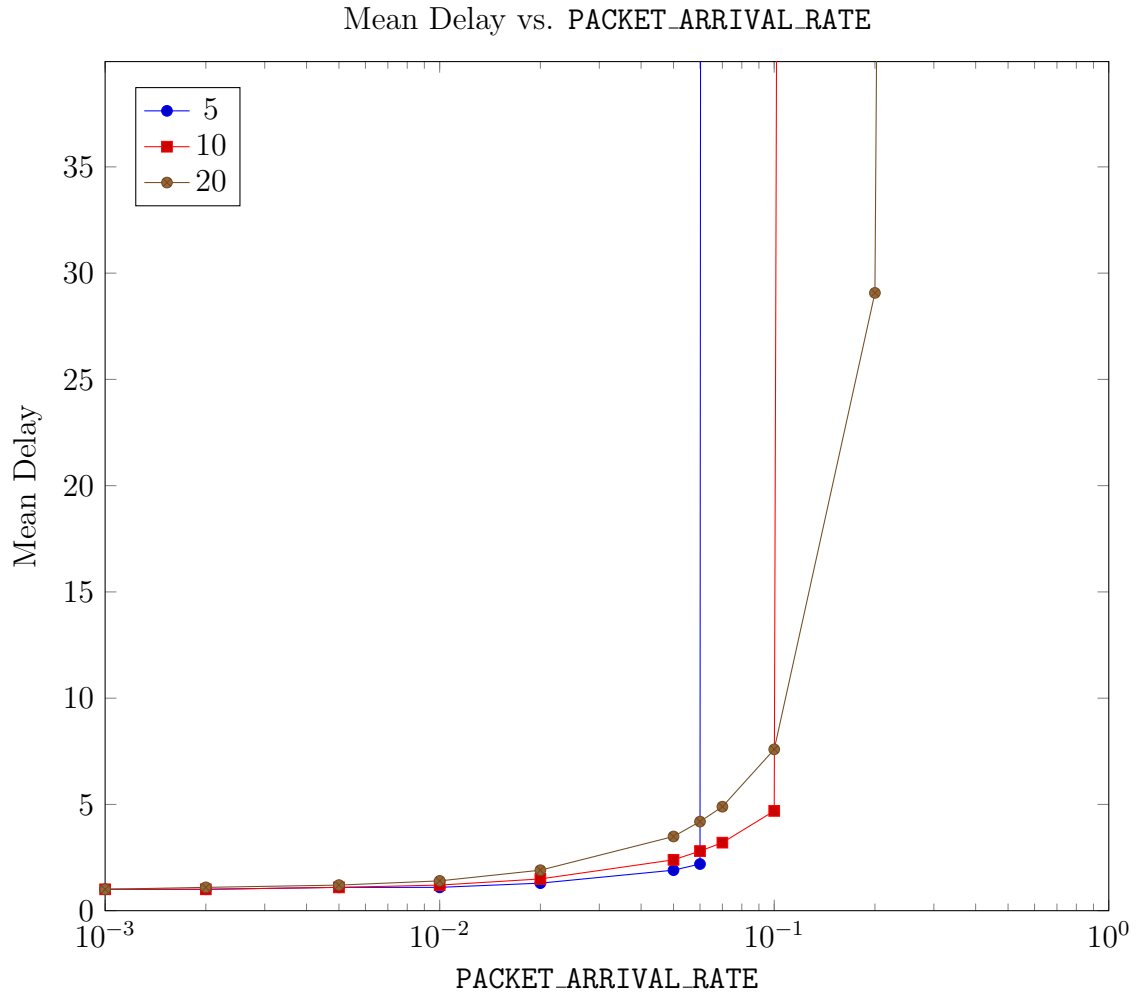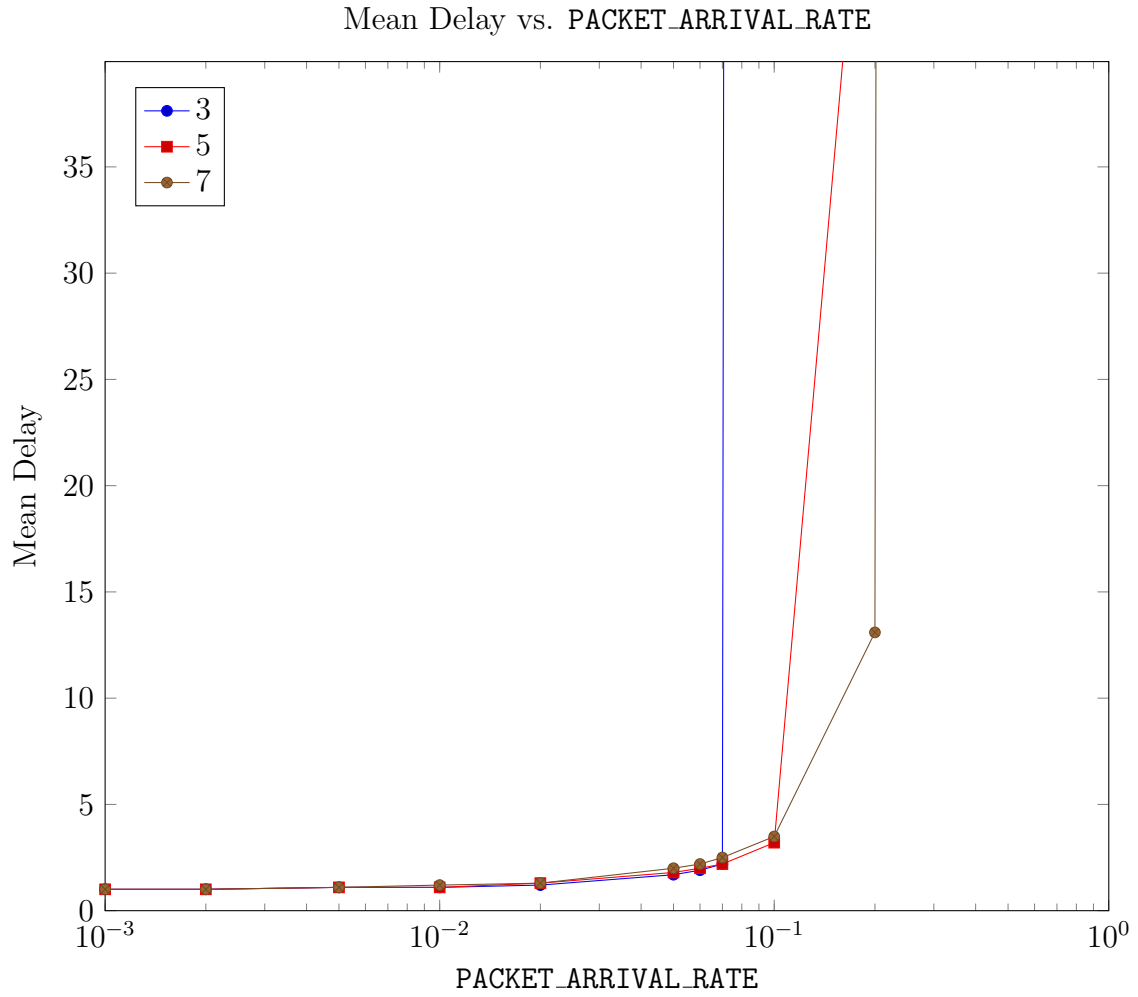

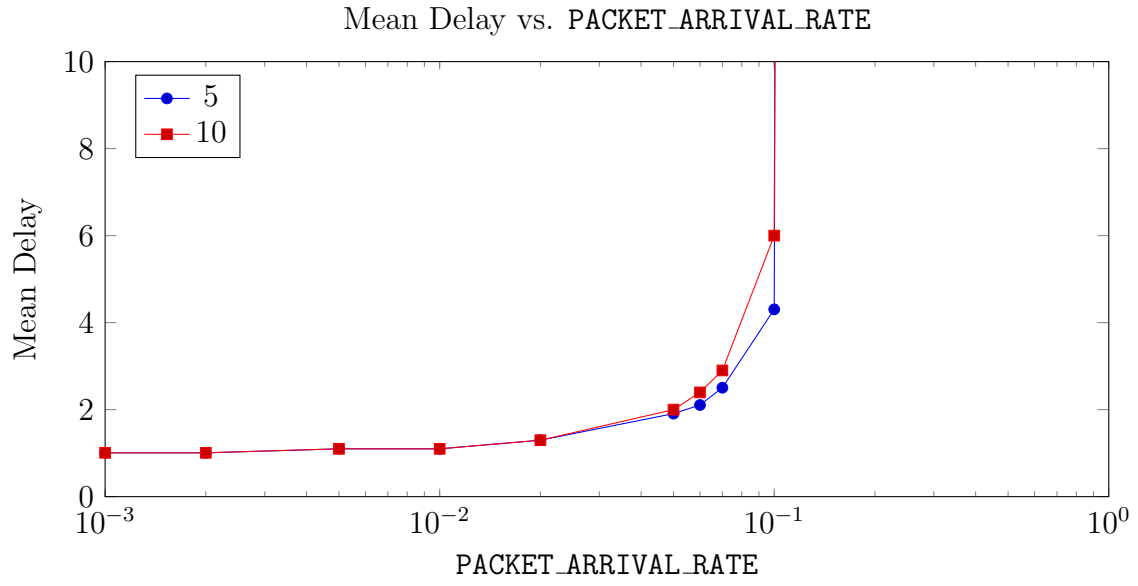Figure 2: Experiment 2: Mean Delay vs. Packet Arrival Rate with 5 Stations

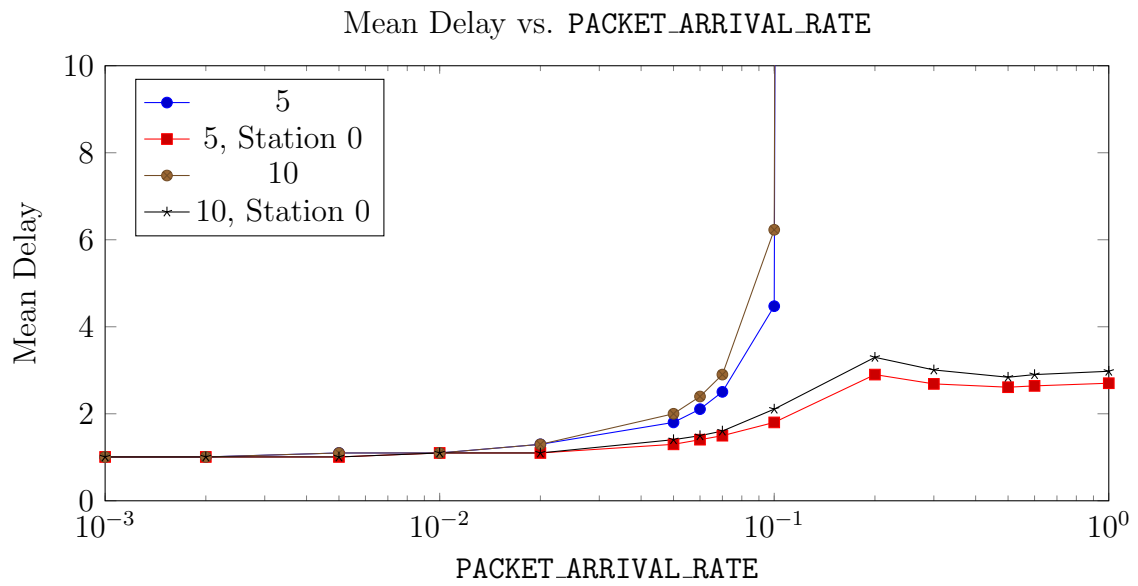Figure 3: Experiment 3: Mean Delay vs. Packet Arrival Rate
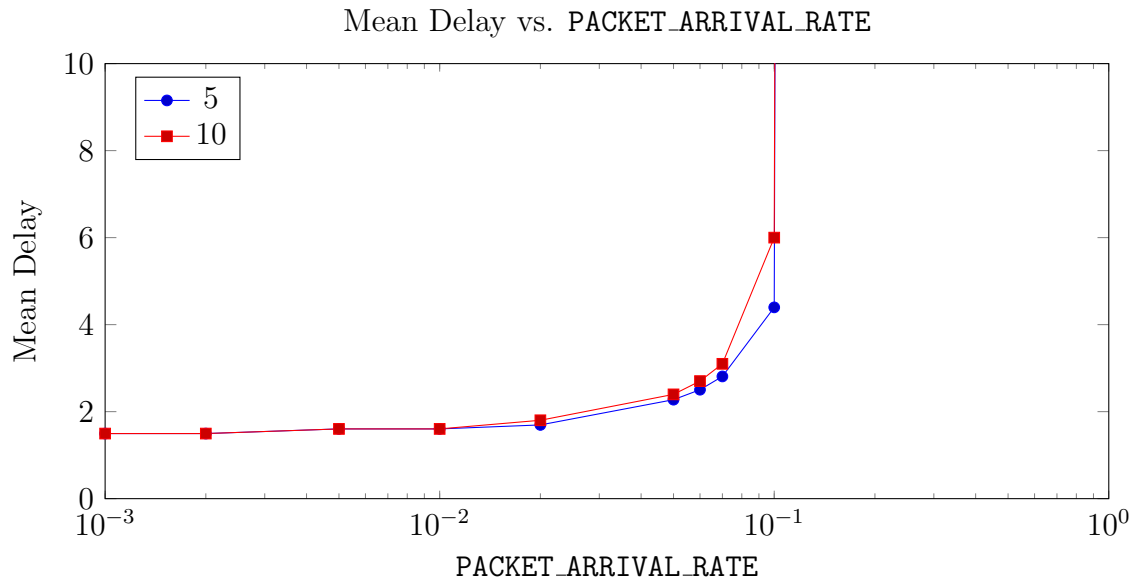

Figure 4: Experiment 4: Mean Delay vs. Packet Arrival Rate

Figure 5: Experiment 5: Mean Delay vs. Packet Arrival Rate