COMPENG 4DK4 Lab 2 Report

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Random Number Generator Seeds

For the experiments in this lab, we used the same set of 18 random number seeds for all experiments. Experiment 2 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 9 different seeds from each our IDs, for a total of 18 different seeds. All the random number generator seeds can be seen in Table 1. In the C code used for the experiments, leading zeroes are removed.

400188200	400190637
001882004	001906374
018820040	019063740
188200400	190637400
882004001	906374001
820040018	063740019
200400188	637400190
004001882	374001906
040018820	740019063

Table 1: Random Number Generator Seeds

Experiment 2

Experiment 3

Experiment 4

Experiment 5
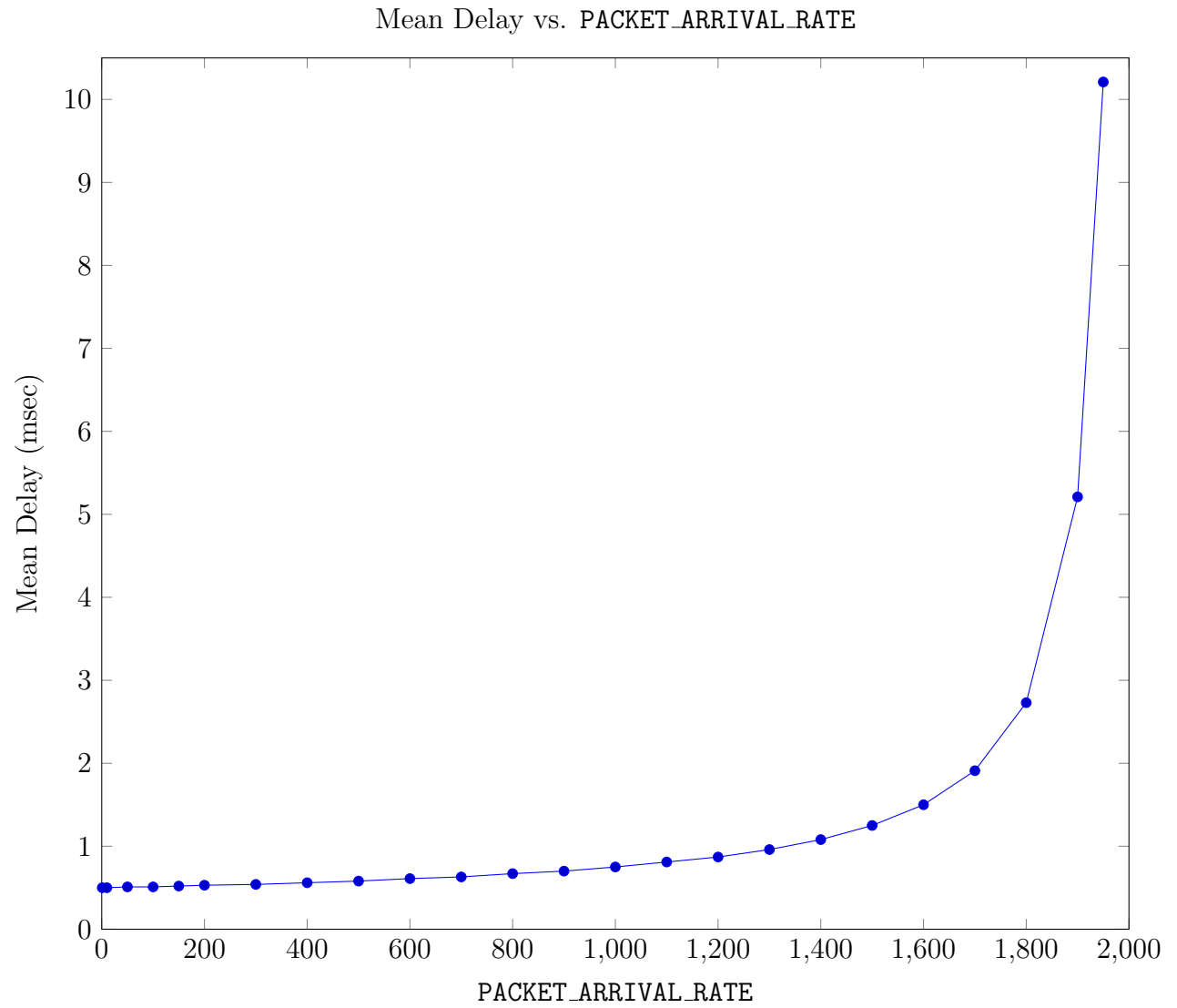
Experiment 6

Experiment 7

Mean Delay vs. PACKET_ARRIVAL_RATE

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