**Assumption**

1. All the transmissions the same BW from the network and there are no errors; thus, no retransmission is needed.
2. The CPU processors and other processing time remain constant.

**Description**

This experiment was conducted by collecting the time taken and data rate of different data length for 5 time and averaging out to get the best result. From the graphs we can observe that for smaller data length x & 2x is a lot faster than x & x in both time taken and data rate. However, as the data length increases both performance will converge.

This is because the number of RTT (ack) required decreases but there is at least 1 ack from the server; thus, as data length gets bigger, the data rate will increase until it reaches to the half of the file size that is transferring.