

ECE 466 Lab 4

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1.5

Sending packet trains with N and L set to a constant 100 and 400 for $r = 10$, 1000, and 10000 produced the following graphs:

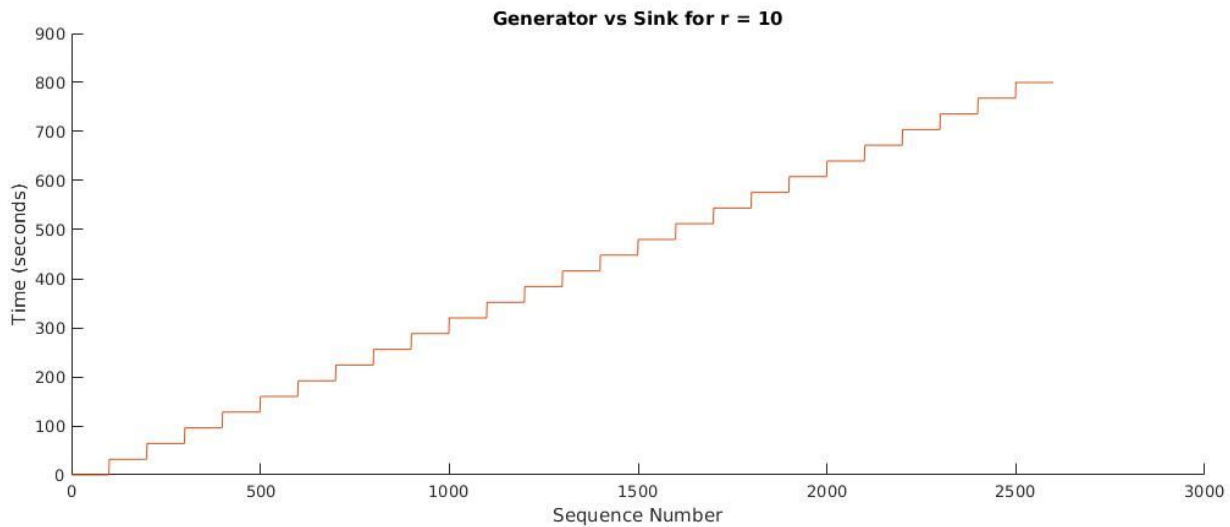


Figure 1: Generator (blue) vs Sink (red) for $r = 10$. Note that the two graphs are essentially identical in this case.

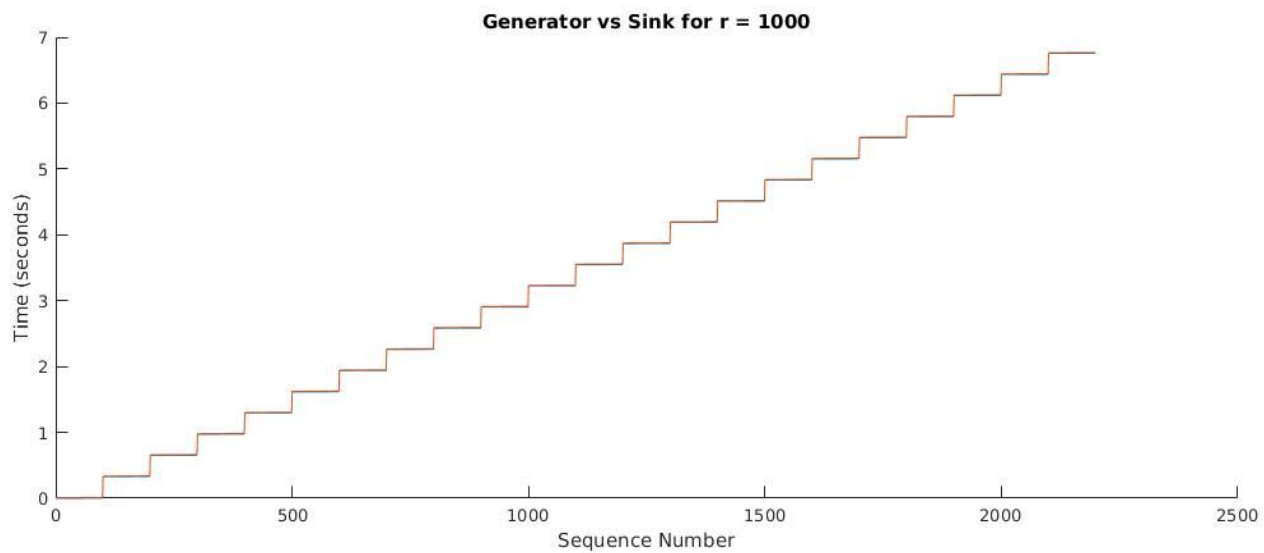


Figure 2: Generator (blue) vs sink (red) for $r = 1000$. See the note above.

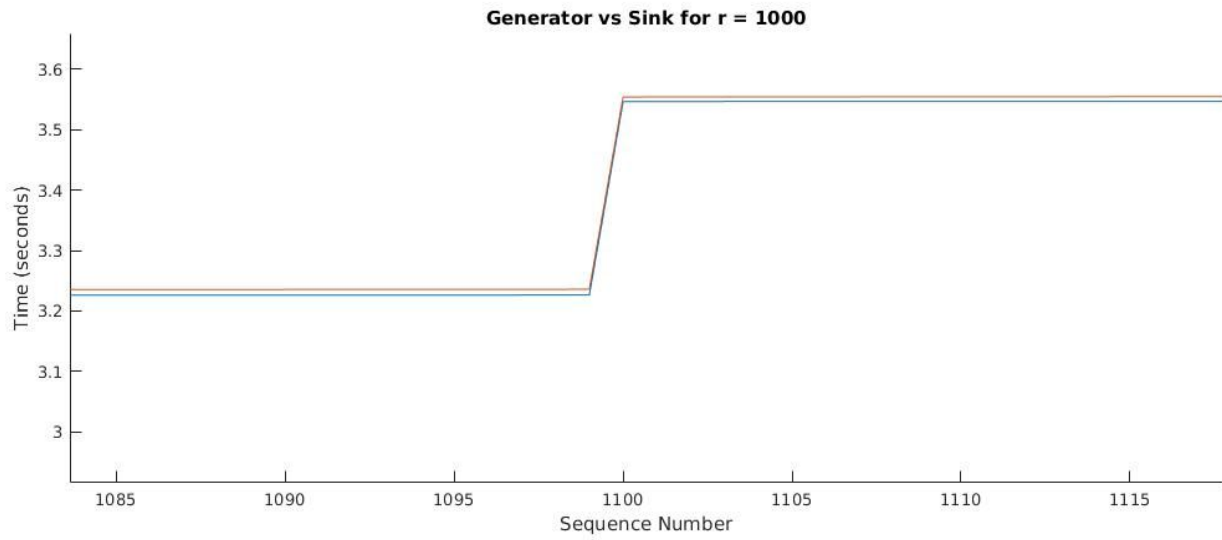


Figure 3: Close view of figure 2. Note the small delay between the generator and the sink.

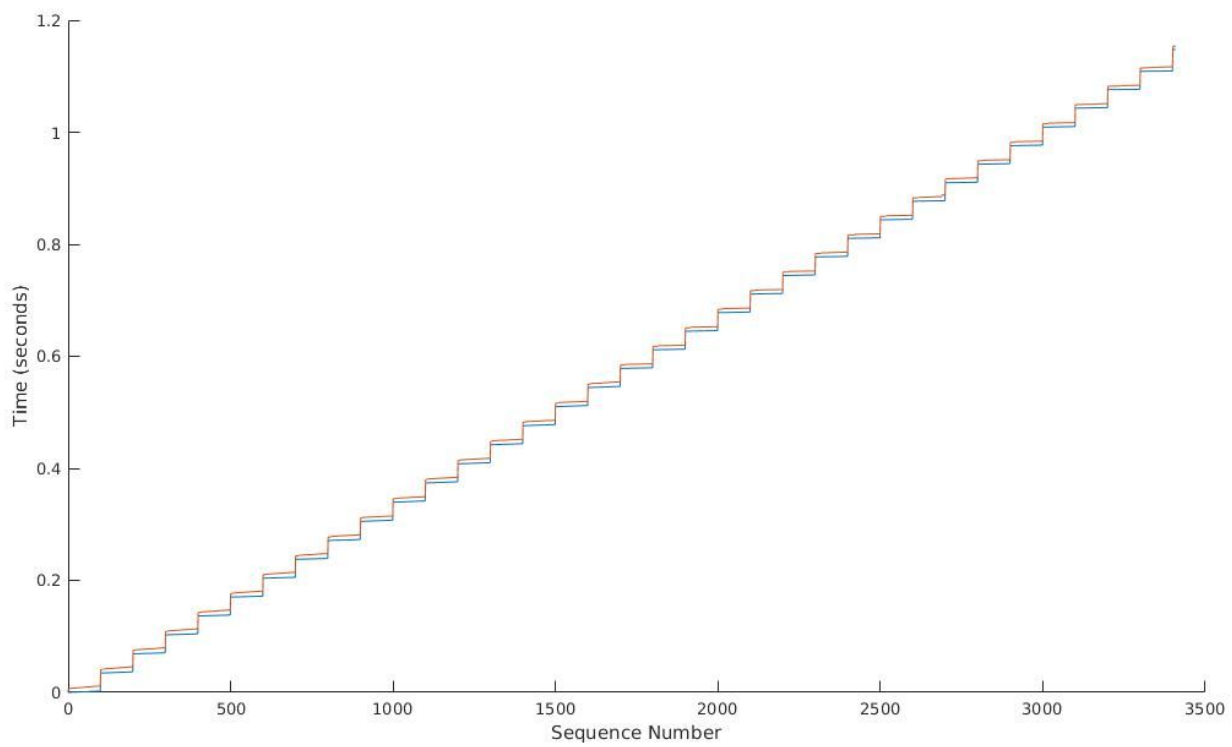


Figure 4: Generator (blue) vs sink (red) for $r = 10000$.

The sink and the receiver are the same shape offset by a small delay in this exercise. This is as expected given that the black box serves packets at an infinite rate. The offset can be attributed to network delay, i.e. the time it takes to transmit to the black box and to receive the transmission from the black box.