Exercise 1.2

I frame average size = 183776

P frame average size = 111412

B frame average size = 36093

Exercise 2.3

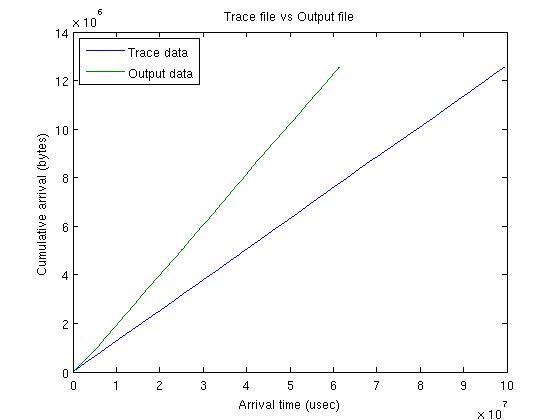


Figure 1: Cumulative arrivals of file data and trace file

The accuracy of the traffic generator can be improved by reading the trace file in one thread and transmitting the created packets in another thread. After these modifications in code, this change has been reflected on Figure 2.

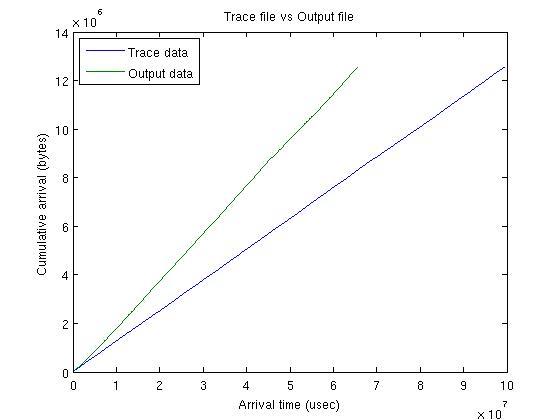


Figure 2: Improved cumulative arrivals of file data and trace file

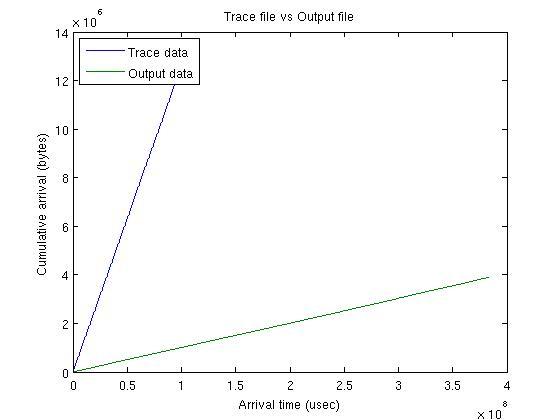
Exercise 2.4

Figure 3: Cumulative arrivals of file data and trace file with packet loss

In Figure 3, the traffic generator is on one machine, and the packets are transmitted to a traffic sink on a different machine. The discrepancy between the trace file and output file cumulative arrivals data shows that some UDP packets have been lost.