

Term Project Phase 1

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1 Implementation

The processor was implemented using Python. Random delays using an exponential distribution with a mean delay of 5 microseconds (5×10^{-6} s) were used in the experiment.

ICMP packets were captured and processed in an MITM setup, where they were subjected to the generated delay before being forwarded. The processor subscribed to `inpktsec` and `inpktinsec`, applied the random delay, and then published the modified frames to `outpktsec` or `outpktinsec`, depending on the direction.

The RTT values were measured after applying the random delay. Both the random delays and the RTT values were stored using Python's pickle module for later analysis.

2 Results

The results were plotted in the figure below, showing the relationship between the random delay and the RTT.

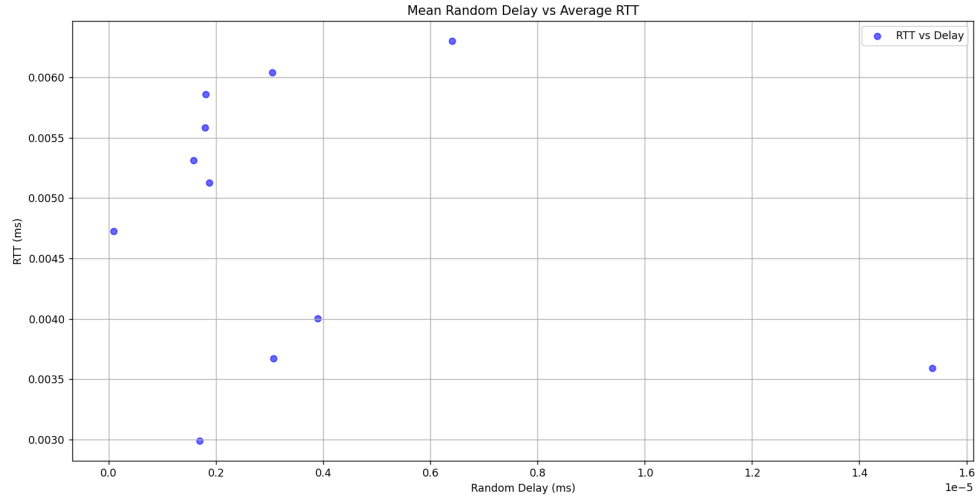


Figure 1: Delay vs. RTT