

CPSC 441  
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## Observations

The observations I have made given my model is that faster internet speeds is able to provide a shorter queuing delay, most likely due to how the transmission time for each packet is reduced due to the higher bandwidth. You can really see how reducing the speed by even just 50% results in a queuing delay that increases by almost 2500%. My model for some reason however, isn't able to gather any data about packet loss, so I can't make any conclusions on what to set the buffer size which has a good trade off with packet loss. What I can infer however from the increased bandwidth is that increasing the bandwidth will most likely also reduce packet loss on the basis that the buffer will be freeing up space much faster than it would otherwise. Therefore, the buffer will be full less often which results in fewer dropped packets.