Kent Mark

Lab 5 Report

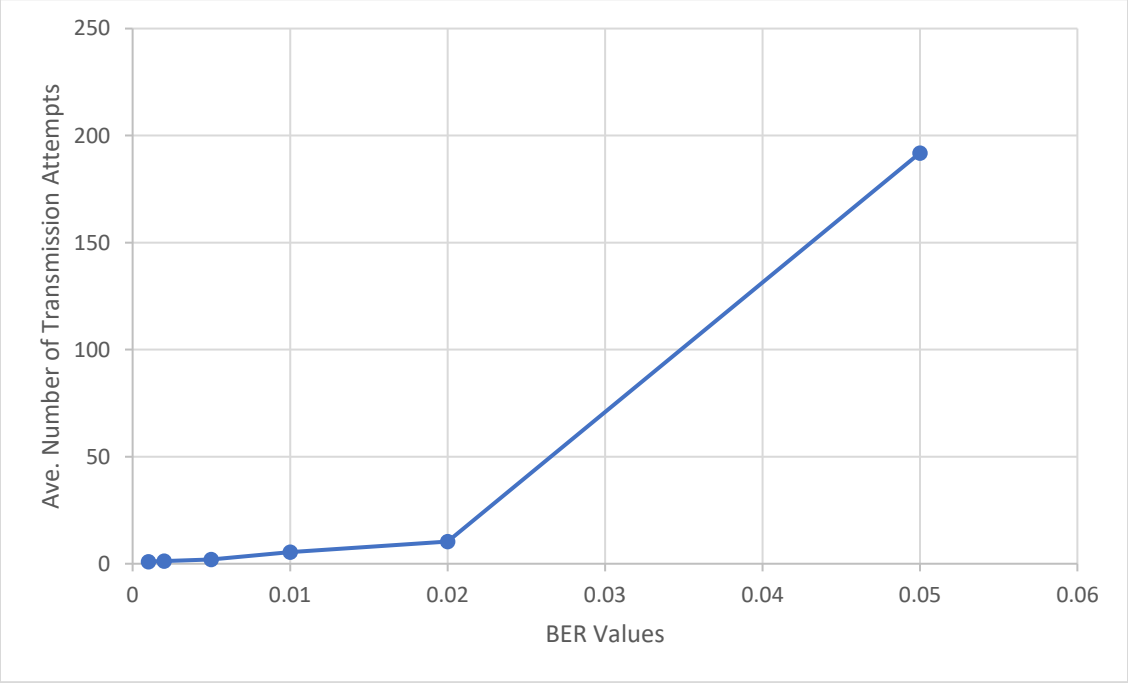
10/27/2021

Lab 5 Report

What I learned:

This lab helped me learn more about Error Detection and the GBN ARQ Protocol. As I was completing this lab it gave me the opportunity to research more about how errors are handled, and the GBN ARQ process as a whole. It also showed how detrimental having a poor connection while using this method can be in regard to the amount of time you have to wait to fully receive any information that was sent over the established connection.

Exercise:



As the BER was increased the average amount of packets transmitted drastically increased. From 0.001 to 0.02 the retransmission rate wasn't too bad, but once you climb up to 0.05 there was a noticeable compounding effect going on concerning how often to packet sent was corrupted. This made the program run much longer as there was an average of 191.9 tries to send all the packets. This means that there was way more packets sent compared to the 14 that was actually needed if there wasn't any error introduced.