EE3204 Assignment Report

# Alternating Protocol Tabulated Results

# Stop and Wait Protocol Tabulated Results

# Description of Results

From the results, there is an observed increase in average time and a decrease in average data rate as the DATALEN decreases from 10,000 to 100 on both protocols.

When comparing between the average data rates, the alternating protocol was observed to have a lower data rate as compared to the stop and wait protocol. This could be due to the way how the code in the alternating protocol was done as a counter to keep track of which state of the alternate the protocol was in caused the slowdown of transmission. When compared to the stop and wait, because of the fixed data unit transmission, no additional measures were needed to track the state and hence allowed for a shorter transmission time.

Moreover, average time in the stop and wait was much lesser than the alternating protocol due to the reason stated above. However, when looking at a higher DATALEN, the difference between transmission time becomes less evident, due to a lesser number of handshakes required because of the decrease in the number of packets exchanged.

# Assumptions Made

Results tabulated assumes that the transfers occurred within the same computer would be similar to that of transmitting to a different computer.