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 looking at the average time transmitted for alternating protocol, there is an observed upwards linear trend at the 1000 packet length onwards. As could be said with the stop and wait protocol, however, for the 100 packet length result, it could be due to the network being unstable which caused a spike for the result. However, when analysing the result as is, the upward trend for stop and wait is more gradual at the start, rocketing to nearly twice that of packet length 250’s result

For alternating protocol, because of the need to do preprocessing of the DATALEN, the average time was higher as compared to the stop and wait protocol whereby the DATALEN and number of packets sent are fixed, which can result in a more stable transmission.

The same can be said for the average data rate, stop and wait allowed for an overall higher throughput then the alternating protocol, with the exception of at the packet length 10000, where it was higher.

# Assumptions Made

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

When transmitting data, the network is assumed to be stable and hence able to transmit the packets reliably and without micro disruption.