Lab number: 2

Lab Title : Congestion

### Abstract:

### *In this lab I added communications between nodes 0 and 1, adding a green colour to the communications for easier tracking. Then another connection between nodes 0 and 4 was added and the topology had various communication start/stop times modified. Afterwards a timeline of communications was created.*

### Aim objectives and goal:

*To determine what happens in regard to congestion when the amount of communication between nodes is increased by observing a timeline of node communications and the status of packets in certain node links.*

### Observation/ Results and Discussion:

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*After modifying the topology, I created a timeline representing when each node was communicating in the network. I used this to aid my understanding of the communications taking place - The 4 -> 0 and 3 ->4 connections had no issues, but I found that a decent amount of the data packets from nodes 1 and 0 going to 3 were dropped after reaching it. This is presumably due to the queue size for these links being 10, causing connection issues due to packages not being delivered.*