Aaron Holt
CSCI 5753

Proposal:

I propose to do a measurement study in which I use SNMP to monitor a network device and characterize network traffic flows.

Assignment 2 consisted of very little analysis which included average packet size, packet sizes over different links, and packet size variability. Data from assignment two was only collected over a two hour period with only ten intervals. I'd like to build on this by:

- Collecting data over a longer period of time (ideally a week+, but at minimum a day or two given current time constraints). More data will allow for data analysis on an hour by hour basis (which times of day is the network most busy etc).

- Perform better analysis on the collected data. We used a minimal amount of techniques such as standard deviation, mean, and inner quartile range. I'd like to take a closer look at the data using techniques from later in class such as confidence intervals.

- Improve upon the data presentation with different graphs and charts (ex: line graph, violin and/or boxplot etc).

- If possible, I'd like to compare it to a identical/similar network device and compare the two.

Resources:

Access to 2 network devices (or at least 1)