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## CECS 327 Homework #2

### **1. In which scenario is there greater page loading delay? Explain why.**

On average between all the workstations, the hub scenario seems to have a greater page loading delay. This mostly because of the limitation of the hub not being able to address a specific device and instead has to broadcast to every port connected. This way of reaching its intended destination causes congestion in the network thus resulting in longer response times and greater page loading delay. In the switch scenario, a switch has mac addressing information allowing it to forward messages to certain devices without having to broadcast to all the devices. This reduces network traffic decreasing the delay.

### **2. Are there any worthwhile differences in any of the other statistics that were collected? Explain why one would expect differences or identical results.**

There seems to be anomalies in the delay for the TCP layer in the ethernet hub scenario. There is more network traffic received caused by the ethernet hub resulting in greater delays at certain points as the ethernet hub involves all ethernet workstations in the process. I would expect differences in response times as using a switch over a hub is generally quicker.