Fast Internet

Features implemented:

* Multiplexing
  + To accomplish multiplexing, I approached the task by using an array of descriptor sets to allow for essentially as many stations as possible to connect to one CSP.
  + Below is a diagram of how the processes communicated.

A picture containing diagram

Description automatically generated

* + Below is a depiction of the descriptor arrays and there association which each client process. This allowed for **selection** on any of the processes already loaded into the file descriptor set.

Application

Description automatically generated

* Queues
  + Creation of queues for the CSP and the SPs to maintain there requests and data.
* Frames
  + Creation of frame structure to keep communication consistent amongst the processes and CSP.

Features not implemented

* Mostly I could not get the output into the logging file to be accurate, I spent a lot of time making structures to pass back and forth between the station and the CSP, but this may have proved more difficult than just passing strings back and forth.
* I think some of the ordering to how the queues would respond to an event/request is not right as well.