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CIS 415 Project 2

Report

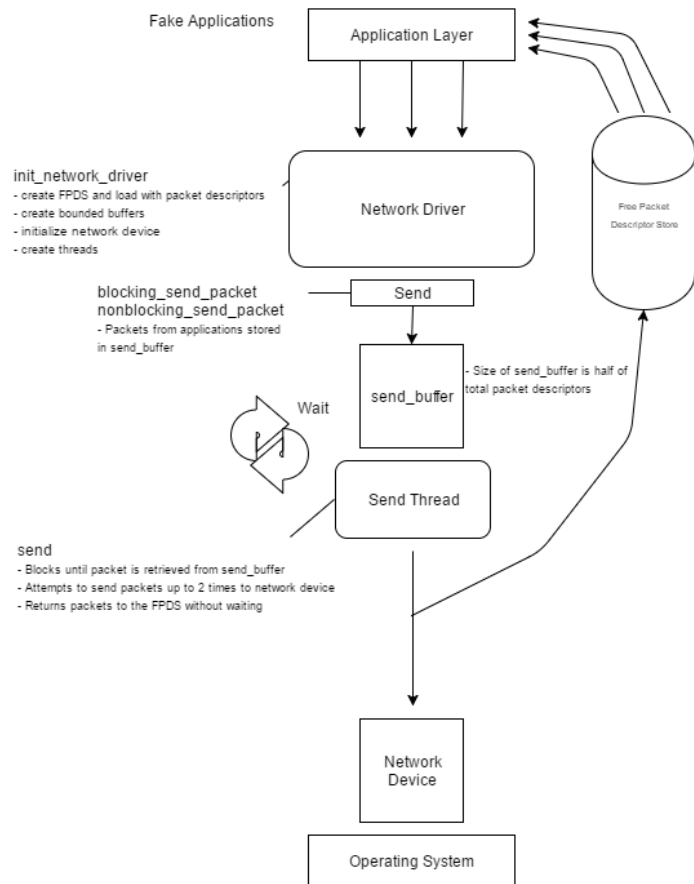
My network driver seems to be working to the desired specifications. I have run `./mydemo` several times at different time intervals, at most 20 minutes, writing the output to a file `log.txt`. After, I perform the command: `cat log.txt | grep ...` with Bug, Error, and Warning in place of the ellipses. I receive none of these in my output. I do not receive any segmentation faults. My output seems to be similar to that of the provided `./demo` application, although I cannot say whether they perform similarly. I attempt to shield against bad input in `init_network_driver` by checking if the network device is null, and returning if so. I planned on checking if the number of packet descriptors created was appropriate for the value of `MAX_PID`, but did not implement this safeguard.

I discussed the assignment with Danny Lu, Jeremy Unck, and Robert Macy, but all code was completely written by me.

My diagram shows the general flow of the driver, each side representing a thread. The send thread describes applications sending packets to the driver to be stored in a single send buffer, and a sending thread that will send a packet then return that packet to the FPDS. The receive thread shows an array of bounded buffers, one for each application, that stores any received packets. Each side briefly explains the flow of the functions.

Diagram

SEND



RECEIVE

