Dawit Woldegiorgis
COP 4600
Section: 0467
September 10, 2015
Homework #2

Learning Experience:

- I definitely learnt how to use pthreads and SIMPLEQ (although I decided against using SIMPLEQ in my code due to lack of time for debugging obscure errors) by reading example codes, manuals and tutorials.
- My fear of man pages has significantly been reduced. Instead of seeing them as a burden, I have started appreciating them a little more. This happened as I learnt how to filter out the relevant information from the extraneous.
- The difficult part of the project was using limited resources to learn and implement using unfamiliar tools. Additionally, building patience to go deep into errors that are not easily discovered was very challenging and frustrating.
- Time management for building this project from scratch was also a big problem as it hindered me from transforming my logical ideas into code – The debugging process was extremely time consuming.
- I didn't feel like there were any easy parts to it.

Suggestion:

- The project requires a lot of learning extra material and writing code by integrating those materials into the project. I would think it would have made working on this a lot smoother had we had a little practice with the unfamiliar code – pthread and SIMPLEQ. So maybe having a separate mini project / part of a project simply working on SIMPLQS and pthreads would be nice.

On my honor, I have neither given nor received unauthorized aid in doing this assignment.

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PROGRAM INFORMATION

Q - Does the program compile without errors?
A – The program compiles without errors on the openBSD VM provided. It was not tested on other compilers or other OS.

Q - Does the program compile without warnings?
A – Yes, no warnings are generated during compilation.

Q - Does the program run without crashing?
A – During the several test runs performed, the program has never crashed, and isn’t expect to either in future runs.

Q - Describe how you tested the program.
A – I tested the program by testing the sections incrementally during the code writing process, as well as using the simulation. Additionally, further verbose messages were used during the testing process to make sure variables and states were what they were supposed to be.

Q - Describe the ways in which the program does not meet assignment's specifications.
A – Fairness was NOT implemented. The semaphores I used are UNFAIR.

Q - Describe all known and suspected bugs.
A – There are no known or suspected bugs in the program, in the current condition.

Q - Does the program run correctly?
A – The program does run correctly (although unfairly), as every run generated a correct output, and the execution patter reflected what was expected of the program.