Project 4: Concurrency

WARNING

This project is more difficult and more time consuming than the other projects you have done so far in CS 537. Start early!

Important Dates

Questions about the project? Send them to `537-help@cs.wisc.edu` .

Due: Wednesday 11/18 by 9pm.

New Extended Due Date: Sunday 11/22 by 9pm.

Overview

There are two parts to this project:

- Scalable Web Server: to be done on the linux lab, so you can learn more about programming in C on a typical UNIX-based platform. Before you begin, we highly recommend that you watch this video from a previous discussion section. As was the case in the past, the project details will be slightly different, but the main ideas will be the same.
- Kernel Threads: to be done in our xv6 hacking environment. This is the video to watch for this part.

Click on the above links to learn more about what you should do. READ EACH CAREFULLY!

Notes

This project can be done with a single partner. Copying code (from other groups) is considered cheating. Read this for more info on what is OK and what is not!

Handing It In

The handin directory is `~cs537-1/handin/SECTION/login/p4` where `login` is your login and `SECTION` is your unofficial discussion section (e.g, 301).

For the C/Linux part of this project, you should copy whatever is needed to build the web server (including a makefile) into the `linux/` subdirectory.

For the xv6 part of the project, copy all of your source files (but not .o files, please, or binaries!) into the `xv6/` subdirectory of your p4 directory. A simple way to do this is to copy everything into the destination directory directory, then type `make` to make sure it builds, and then type `make clean` to remove unneeded files.

Finally, into your p4 directory, please include a README file. In there, describe what you did a little bit. The most important bit, at the top, should be the authorship of the project, particularly if you had a partner. Include both partner's names and CS logins to receive credit; please put the README in BOTH partners' directories; put the code in just one. **Do not put any code in the other person's handin directory!**