

Adam Zorgo

Operating Systems Individual Project 1

Codebase

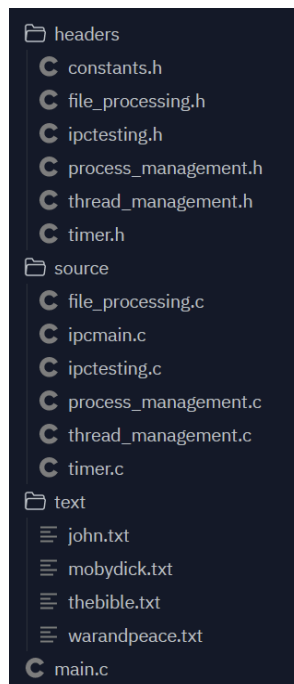
Github link:

https://github.com/Adam-Zorgo/process-thread_manager_ipc-and-textprocessing

Overview

This project is an application that gives users the ability to create and manipulate threads and processes, communicate between threads, and use multithreading capabilities to efficiently process large text files.

Structure



The structure is very modular and separates header/include files from source files, as well as obviously having a separate directory for test text files.

Execution

The simplest method would be to fork the replit project at <https://replit.com/@21adamjz/OSproject1> , though the Github repo as seen above has all of the code as well as a zip file.

Verification

Video link: <https://vimeo.com/921816885?share=copy>

Will run flawlessly on Replit.

Challenges

Of course it took a lot of time to work out the numerous bugs, especially to do with the Process management and IPC for some reason.

Other than that there weren't too many difficulties. The project definitely made me more confident with regards to writing multithreaded applications. I could have made a more sophisticated GUI.