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CSC 332 – Operating Systems
Assignment 1 Summary
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This is the first assignment of this course. It contains three parts: init [init.c] – which has the parent PID and is also used to fork the other two processes. CPU emulator process [cpu_emulator.cpp] and scheduler process [scheduler.cpp]. If the init process is successful creating the two processes, then the CPU emulator and the scheduler sends and receives information back and forth, until the scheduler asks the CPU to stop.

TCP socket is used for the two-way IPC. Although, I first started with a two-way pipe, but later decided to use the TCP socket, because it being more portable and can be used for the future assignments for this course.

For the programming language, I have chosen to use C++ (I am fluent in C++, Java, Python, JavaScript) - mainly because for the 'CSC 332 Lab' we are restricted to use only 'programming language C'. So, C++ will be the wiser option in terms of code reusability, if I want to use some of the codes I did for my lab and to use that in this course. Also, C++ will produce the fastest result of the four prog languages that I know.