File List

main.c - main src file main - main executable sample 1 - 4.txt - sample programs output.txt - txt file that shows correct output for sample 1 - 4 Summary - .md and .pdf summary files describe the project in more detail

How to Compile and Run

In the terminal, type 'gcc main.c -o main'. This compiles the program. To run the program, type './main samplex.txt y'. Replace x with the sample number and y with your desired interrupt timer. Every y instructions the CPU will push the current registers to the stack and execute the timer interrupt handler.

*NOTE: When testing sample 3, if you choose a interrupt timer that is a power of 2 (i.e. 2, 4, 8, 16, 32....) the cpu gets stuck in an infinite loop and you'll have to use ctrl+c to quit the program. Details are in the summary.