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Beta Version Document

CPU Scheduling Algorithms

There are a couple of different files within the .zip file. The img folder contains all the pictures of console output for our theoretical part of the project. The final proj notes OneNote is some of our research that we have done for the actual project. The posix-rt.c and posix-rt\_original.c files contain the actual multithreading CPU programs for testing our computational data. The original is pulled directly from Chris from his lectures, and the posix-rt.c is the file we are editing. We are using an array data structure to store our time and bubblesort and heapsort to run the bigger and smaller threads respectively to compare run times for FIFO and RR. The presentation slides and proposal are the files used for the previous two sections of this project. The schedulingAlgorithms is our actual theoretical data program that we created from scratch using the book as a guideline, and did all our calculations for what we expect to get when theoretical data is entered in for each scheduling algorithm. We also use arrays to store times and selection sort for sorting our data. We also added a “things left to do” text file for figuring out next steps towards completing our final project. The PowerPoint does a good job of going over our project if you are confused!

All files and programs are included within the .zip file, and the img folder contains theoretical data output, so please refer to that! I have also added below the data received from the book and our matching output data through our code. It took quite a bit of math and programming to make sure that it would mimic the algorithms correctly and accurately.

In the pages below are some data outputs if it helps it all be organized in one area.

