Project: OS Problem Set

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This Java program is a SIMMAC machine that will accept programs in the target machine language. This SIMMAC machine runs six SIMMAC machine instruction programs. On each job switch, the job loaded is printed. All of the SIMMAC machine programs are loaded from a text file. A priority-based scheduling system was created for this program. There are three priority-based schedulers that get a certain percentage of the CPU time.

Analysis: I got this program to work with no compiler errors. This is the fourth version of this program. I ran into a problem with reading int values. The num array can only read two-digit numbers. I first read the text file associated with this project called simmacprog1.txt. Then I used an opcode method to find specific instructions/jobs. I get a job and find the CPU execution time of it. I get the largest CPU time of all the jobs and use that for the priority scheduler. This program has three priority schedulers with different percentages of the CPU time.

Installation: Make sure that the java file and the text file are in the same location. To run on the terminal you need to download the latest version of JDK. Go to environmental variables and set the path to be the bin folder in jdk. Run javac simmac.java to compile the file. Then, run as java simmac (no .java this time).