Author, Date

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Brief summary of the software

This is a simple CPU scheduling simulator program based on C that will read commands, numbers of processes, process arrival order, CPU burst per process and priority per process from one or more files to compute the waiting time and turnaround time. Command line parameters will select which scheduling algorithm to use and the quantum value, as needed. The chosen algorithm, parameters, and “running” message will be displayed on console when program is running. Finally you will see every parameter, waiting time, and turnaround time will be showed as result at the end. If there were any invalid numbers in file or operations the simulator would express that.

How to build the software

1) Decompress project-03.tar.gz file to any directory you want.

2) Open terminal, use commands to go to the directory which you decompressed the file just.

3) Type command “make” to compile the scheduler.c file.

How to use the software

To create your own TXT file to execute your own CPU scheduling by rules, such as using valid numbers and putting those parameters by order as example.

How you tested your software

1) Trying to input the filename not existed.

2) Trying to input couple filenames at same time, and some of them are not existed.

3) Trying to create files which have both valid and invalid numbers or wrong orders and to execute them.

4) Trying to open other types of file.

Examples

1) Being read file format:

4

4 3 7

2 3 10

3 5 7

1 7 1

2) Command line format:

shell$: make

gcc -o scheduler scheduler.c -Wall –g

shell$: ./scheduler –s 1 test1.txt

Known bugs and problem areas