User guide

« Process Scheduling Simulator » Project

Christian BERANGER & Antoine QIU – L3 – I – D

This guide is intended for users of our project, in order to facilitate their understanding and their use of this program.

I – Launch of the program

To launch this program, you must go to the terminal of the folder where the “main” file is located. Once in the terminal, just execute the “make main” command to compile the program, then “./main” to launch it.

II - General

Once the program is launched, a menu will be displayed with 7 different options. These options are selectable using numbers. In effect :

- Number 0 exits the program.
- Number 1 is used to launch the FIFO algorithm.
- Number 2 launches the SJF algorithm.
- Number 3 starts the SIMPLE PRIORITY algorithm.
- Number 4 launches the ROUND ROBIN algorithm.
- Number 5 makes it possible to launch the algorithm of ROUND ROBIN under a second version which is experimental.
- Number 6 allows you to run all the algorithms except the second ROUND ROBIN algorithm.

III - Statistics

After running each of the programs presented in the menu, the user will get a message explaining that the data has been exported to a “csv” file. To access it, simply go to the folder where the "main" file is located. The user will then find the "csv" file named the same as the result displayed in the terminal. This “csv” file then gives him access to the statistics of the various programs performed.

IV-Configuration

The values used in the program can be modified in the "config.txt" file, according to the convenience of the user while respecting the format already present by default. The number of processes is shown at the top and should be changed according to the number of processes present.

For each process, we find the name of the process with its arrival time indicated next to it in milliseconds.

Below, we find the name of each of the types of cycles of the process defined by "ES" or "CPU". In the second element of each cycle, we find the duration in milliseconds of execution of this cycle. Finally, as a third element, there is the cycle execution priority. This priority has no effect on the so-called “ES” Inputs/Outputs.