Readme File CS5352:Advanced Operating Systems Design Name: Ravi Sankar Gogineni Rnumber: R11788968

Prerequisite library:

* Network
* Psutil
* Cprofile(Snakeviz)
* Numpy
* matplotlib

File Name Convention:

1. Shortest Remaining Time
2. First Come First Serve
3. Concurrent (Shortest Remaining Time & First Come First Serve)

How To Run:

* Run individual algorithm (Shortestremainingtime.py, Firstcomefirstserve.py, concurrent.py)
* Each program has different inputs given through csv input file To get the output of the bucket and counting sort, run the combine.py

For Each File:

1. run the code on pycharm.
2. Input is included in the program
3. Observe process id which is printed out.
4. the program would run and print out results with graphs.

Generalized methods are written in the file:

Functions details() is used to get the all the details of

1. CPU usage
2. Memory usage
3. Hard drive usage
4. RSS: Resident set size
5. VMS: Virtual Memory Size
6. Number of page faults

Function visualizationData() is used to the graphs for the 6 details.

Run program.py python file to get system-level information.

For multiprocess use the file below

Run Program Done By Using Multithread

The User information and System user information in shown by bar graph and pie chart in figure

Now the we need profile data for programs it is done by snakeviz by using the following command in the terminal.

Run command : pip install snakeviz

Then we need to create a profile for the program by the command

Run command : python -m cProfile -o program.prof my\_program.py. Provide the program name in my\_program and give profile name in program.prof

A profile file is created in the pycharm then run the following command in terminal with the profile name

Run command: Snakeviz program.prof

Folders Explained

1. Readme File
2. Report
3. Project Aos (programs,input data)
4. Project Outputs.