152115017 INTRODUCTION TO OPERATING SYSTEMS(A)

Instructor: Research Assistant Dr. Zuhal Can

Project 3: Concurrency using Unix processes and threads

This project will help you to understand concurrent execution of processes and use Posix Pthread library for concurrency.

Project explanation

- 1. Submit a README file that lists the files you have submitted along with a one sentence explanation. Call it Prj3README.txt.
- 2. MergesortSingle.c: Mergesort is an effcient algorithm for sorting large data set. Implement mergesort using a single threaded program
- 3. MergesortMulti.c: Implement mergesort with multiple threads (one of each divided component) using Pthreads.
- 4. Compare the times of the two implementations in Prj3README.txt.
- 5. Copy your programs' outputs into Output.txt
- 6. Submission Notes:

Use the given names for files as given in Project explanation above and as listed below, and put files into Prj3_YourlD folder. Compress the Prj3_YourlD folder as Prj3_YourlD.tar.gz with the command below. Submit through platindys.

tar -czvf Prj3_YourlD.tar.gz Prj3_YourlD

Prj3_YourlD.tar.gz should include the files below:

Prj3README.txt Prj3header.h MergesortSingle.c MergesortMulti.c Output.txt

7. Due date: 22.05.2020, submit before midnight.

Late policy

For every day the assignment is late after the due date, you will lose 4 points from your assignment score. Assignments will not be accepted after they are five days late.