## Scheduling Algorithm Performance Report

Kamlesh Bera - CS22BT024 Shashwat Shourya - CS22BT070 Ayush Mallick - CS22BT008

September 23, 2024

#### 1 Part I

This program will implement 4 scheduling algorithms using a single CPU as follows: make build-part1

For FIFO:
make single\_fifo
make run\_single\_fifo
For SJF:

make single\_sjf
make run\_single\_sjf

For SRTF: make single\_srtf make run\_single\_srtf

For Round Robin: make single\_rr make run\_single\_rr

To change the process file, replace the "process1.dat" in the run command of each algorithm with the desired process file.

#### 2 Part II

This program will implement 4 scheduling algorithms using two CPUs as follows:

For FIFO:
make double\_fifo
make run\_double\_fifo

For SJF:
make double\_sjf
make run\_double\_sjf

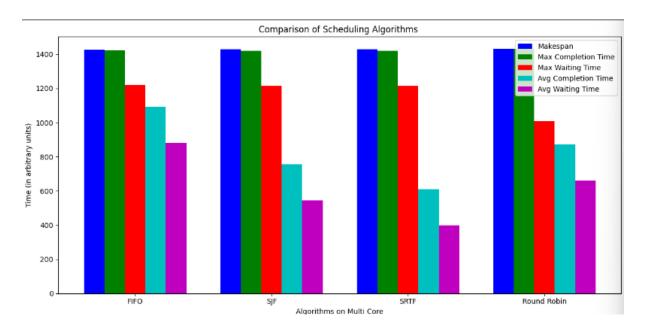
For SRTF:
make double\_srtf
make run\_double\_srtf

For Round Robin:
make double\_rr
make run\_double\_rr

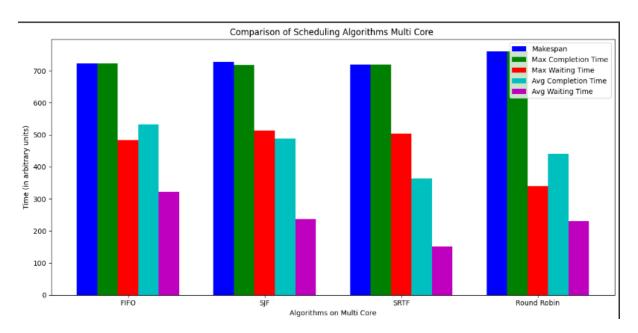
To change the process file change the "process1.dat" in the run command of each algorithm to the desired process file.

### 3 Graphs

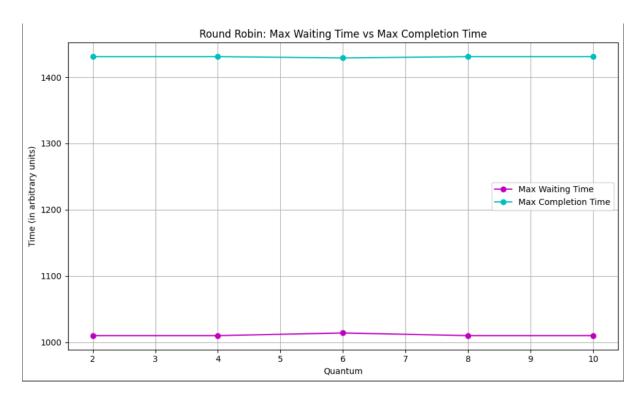
### 3.1 Single core



#### 3.2 Multi Core



# 3.3 Round Robin: Max Waiting Time vs Max Completion Time in Single core



## 3.4 Round Robin: Max Waiting Time vs Max Completion Time in Multi core

