

Intelligent CPU Scheduler Simulator (C++)

CSE316 – Operating Systems | Lovely Professional University

This project is an implementation of major CPU scheduling algorithms in a menu-driven C++ simulator, developed as part of CA2 for CSE316.

Features:

- FCFS
- SJF (Non-Preemptive)
- SRTF (Preemptive SJF)
- Round Robin (RR)
- Priority Scheduling (Preemptive & Non-Preemptive)
- Gantt chart output
- Waiting time, turnaround time calculation
- CPU utilization

Project Structure:

cpu-scheduler-simulator/

 cpu_scheduler.cpp

 README.pdf

 flowchart.jpg

 screenshots/

Compilation:

```
g++ -std=c++17 cpu_scheduler.cpp -o scheduler
```

Run:

./scheduler (Linux/Mac)

scheduler.exe (Windows)

Developer:

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