

National University of Computer and Emerging Sciences



Project REPORT for Operating Systems

|PROJECT : Real-time Scheduling with RPI|

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INTRODUCTION:

Real-time CPU scheduling is an Operating Systems project based on C language, designed in a way to work with Linux OS and Raspberry PI.

It is composed of a scheduler, clock and process. The scheduler is supposed to be the important part of this project as priority has important use cases, the one with the highest priority and ones with the lowest priorities.

Depending on the characteristics of the scheduling algorithms, it accepts tasks based on the deadline and with the proper use of the algorithms we can prioritize and schedule it.

Features:

The main function/features deals with the processing id's, along with the waiting and the burst time, once provided with the sufficient information, the scheduling algorithms like FCPS, SJF, Round Robin works and gets the job done.

Technology: Linux (Ubuntu/Raspbian OS).

Language: C