Operating Systems Group Project Proposal

CSCI460 Fall 2019 Final Project
Team Members:
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Overview of the proposed project and deliverables

We will test the performance of 4 different scheduling algorithms, an Improved Round Robin algorithm, Highest Response Ratio Next, Multilevel Feedback Queues with different time quanta at lower priority queues and a Fixed Priority Scheduling algorithm. We will use similar metrics for performance that were used in PA2.

- Improved round robin
    - https://pdfs.semanticscholar.org/a873/7a10e48d3fdb38d9e89759a8d8974948071d.pdf
- HRRN
    - https://link.springer.com/chapter/10.1007/978-3-642-22191-0_60
- Multilevel Feedback Queue
    - https://pdfs.semanticscholar.org/2114/1d3e5aa22ae137140b692b370292e3b7a7e2.pdf?_ga=2.133353742.1851820565.1572451973-1721692313.1572451973
- Preemptive Priority Scheduling
    - http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.55.3746&rep=rep1&type=pdf

Plan for the division of labor within the group
- We will split up the algorithms in a fair manner between us, 1 to 2 for each person to code.
- The technical report will be a group collaboration using Google Sheets
- The presentation will be done as a group with each of us presenting a portion of the project

Rough schedule for the project:
- Exam #2 Date Friday, November 8th
- The target date for code completion: Friday, November 15th
- The target date for report completion: Friday, November 22nd
- Target presentation date: Friday, November 22nd or Monday, November 25th

GitHub Repository
https://github.com/TimParrish/CSCI460FinalProject