Programming Assignment 3:

Investigating the Linux Scheduler

CSCI 3753 – Operating Systems

University of Colorado Boulder

Fall 2014

**ABSTRACT**

In this lab, we want to compare the effectiveness of the hierarchically organized Real Time and Completely Fair (CFS) scheduler classes

**INTRODUCTION**

In this lab, we want to compare the effectiveness of the hierarchically organized Real Time and Completely Fair (CFS) scheduler classes contained in the Linux kernel. To do so, we are benchmarking and analyzing the behavior of three Linux Scheduling policies: SCHED\_OTHER (included in the CFS scheduler), SCHED\_FIFO and SCHED\_RR (both included in the Real Time scheduler). The latter policies implement respectively real-time first-in-first-out and real-time round-robin scheduling ones whereas the former one implements the standard CFS time-sharing scheduling parameters. Tests were undergone on the CUCS Virtual Image for Fall 2014, running a 64-bit Ubuntu with base memory of 2048 MB and 2 processors.

**METHOD**

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**RESULTS**

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**ANALYSIS**

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**CONCLUSION**

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**REFERENCES**

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**APPENDIX A**

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**APPENDIX B**

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