CIS 415 Operating Systems

Assignment 2 Report Collection

Submitted to:

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**Report**

**Introduction**

*In this project we are developing a master control program whose sole purpose is to take the input file and schedule the execution of the given binaries. This project has multiple parts in which we are adding in additional functionality. In part 1 we mainly just work on writing the code that will launch the master control program, load data in, and then execute all processes in order on their own forked processes. Part2 is attempting to start adding some scheduling mechanics so that each process is told when to operate by the parent using various new signals that are implemented to stop and continue each processes execution. Part3 we start adding in some basic scheduling to allow processes to switch into and out of an execution state. Part4 we add in some addition information using the /proc statistics information.*

**Background**

*In this section of the report talk, about what you know about the algorithm(s) or method(s) you are using. If you made some executive choices in what methods you use, then talk about them here. For instance, typically in systems development there are many ways to implement a system call or to manage threads and processes. Aim for about 1-2 full paragraphs. While doing background research, you may come across something that really helped you understand the topics cover under a project (i.e. system calls, threads, processes, scheduling, etc.), write about that here.*

**Implementation**

*Talk about your implementation of the project here. If there is anything nifty that you tried talk about it here too. If you had problems then talk about that here as well.*

*You can use Notepad++ to copy in code snippets into your document if you want. Just highlight some code, right click and select* ***Plugin Commands -> Copy text with Syntax Highlights.***

int someFunction**(**int param**)**

**{**

/\*some comment \*/

int someVar **=** 5**;**

someVar **=** someVar**+**param**;**

**return** someVar**;**

**}**

Figure 1: Some Algorithm implementation

**Performance Results and Discussion**

*Write about the performance of your project. Give any performance results using standard performance metrics here (i.e. if in the description we say the project needs to have certain output then measure the output of your code vs. that metric). Show output from the console or from your application here if necessary (as a picture or a table). If your code does not run to specification, then explain why here. We will be more understanding if your issues are well documented. If your code does not run, and there is no explanation in either your comments or report, then you’re not leaving us with much choice concerning your grades.*

**Conclusion**

*Give any concluding remarks here. If you learned anything talk about that here as well. If you discovered anything interesting, then talk about it here too.*