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Project 2 Write-Up

CSCE311 Operating Systems

Professor Cole

I began working on this project by reading through Professor Cole's very detailed project requirements, the ThreadCB.java, and the TimerInterruptHandler.java files to get an understanding of how each method should be set up. Professor Cole's method details were fairly straight forward and gave enough information to allow the student to get a good start on the project. Once I felt that I had a good enough understanding of what I needed to do, I began working on the TimerInterruptHandler.java file and was able to finish that step pretty easily given its requirements. Once TimerInterruptHandler.java was completed I moved onto ThreadCB.java and its' much harder methods.

When implementing the data structure for the ready list, I decided to use the built in GenericList for two reasons. Firstly, I much prefer to use linked list structures because of their ease to implement and have less room for error compared to other structures. Secondly, I felt that a linked list structure would make sense to be used since the structure is dynamic and allows access at any point in the structure. Once I had decided on the structure to use I then moved onto implementing it as a global variable and initializing it in the init() method as needed. From there I followed Professor Cole's instructions for coding the methods pretty closely so as to have the most streamlined process that I could implement.

In my process of solving this problem I had a lot of trouble with getting the OSP2 simulation to run without any errors at the end. When originally running the Demo.jar provided I was even having errors then which was rather confusing but after redownloading the project .zip file again I was able to get it to work. From there, I initially had errors when trying to run the program before any processes were scheduled. I quickly fixed this after Professor Cole sent out the email about implementing a try/catch block in the dispatch method which I had not thought of using. From there I was able to quickly solve the smaller issue's that I had until my code was able to run without any errors.