

Project 2 Report, the Fighting Moongoses

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Design:

This project is a simulation of an airport shuttle. The shuttle is initialized at terminal 3 by the start_shuttle system call. Next, a thread is started and runs using the shuttle_run_thread function. This thread runs until stop_shuttle is called or the module unloads.

Shuttle_run_thread starts moving the shuttle after deciding which terminal to go to. It then unloads any passengers at the terminal and loads any new passengers up to the capacity of the shuttle. The module also loads a proc file that will print the status when read.

Journal of development process:

09/19/2014: Assigned project

09/20/2014: Divided responsibilities for part 1 and 2.

09/25/2014: Met to discuss our progress for part 1 and 2.

09/30/2014: Finalized changes for part 1 and 2, divided responsibilities for part 3

10/02/2014: Turned in parts 1 and 2

10/05/2014: Began developing the algorithm for shuttle running.

10/08/2014: Started adding system calls to our virtual machine

10/14/2014: Met to continue development for our module

10/17/2014: Met to continue development for our module

10/22/2014: Met to continue development for our module

10/27/2014: Met to continue development for our module

10/29/2014: Worked on debugging and submitted the module

Contributions of each member:

We decided to split the project based on workload/time.

Sean worked on part 1, David worked on part 2.

For part 3, David worked on adding the system calls to our virtual machine. Sean worked on the initial framework of the module, with David helping once Sean became overwhelmed with the module. The two of us worked side-by-side on the module until submission.

Sean prepared the report.

David prepared the readme.

Reasons for missing functionality/errors (if applicable):

Passengers are not being properly delivered. We believe that this is an error with our arrays.

Passengers are being properly queued, but they are not properly being displayed in the proc file. This is due to the same error in our arrays.

Any changes you would make to the project:

More parts of the project to encourage students to work on it more throughout the time before it is due.