Use Case Description for #3

1. Name

a. Test Machine Multi-threading

2. Actors

a. User

b. Machine

3. Brief Description

a. This use case will allow the user to test their machine’s multi-threading

capabilities.

4. Preconditions:

a. The program must be ran locally

b. The user must have opened and ran Eusocial-Cluster-Utility in their terminal.

5. Flow of Events

a. After the user ran Eusocial-Cluster-Utility, they must compile and run the

program hotthreadtest.cpp

b. The program will run a Fibonacci Sequence depending on time given and number

of machines running

c. While the program is running their will be a momentary spike in CPU usages

d. While the program is running there will be heat waste productions

e. After program is complete it will let user know information

6. Alternative Flows

a. The program causes overheating

i. If the program does cause overheating by some chance, then the

program will trigger the emergency shutdown

7. Key Scenarios

a. The user tested their machine’s multi-threading capabilities

8. Special Requirements

a. N/A