ECE 353 Lab 1 Summary Sheet

Student Names: (1) Aaron Lucia

1. Sarah Mangels
2. Matteo Puzella

Main

1. Draw the call graph of your program.

printParams

rk

Usage

AGE

TEMP

1. List all assertions used in each function.

assert(paramFile != NULL);

assert(powerTraceFile != NULL);

assert(outputFile != NULL);

assert(fgets(line, 136, paramFile) != NULL);

assert(sscanf(line, "%lf%lf%lf%lf", &c[0], &c[1], &c[2], &c[3]) == 4);

assert(fgets(line, 136, paramFile) != NULL);

assert(sscanf(line, "%lf%lf%lf%lf", &r[0][j], &r[1][j], &r[2][j], &r[3][j]) == 4);

assert(sscanf(line, "%lf%lf%lf%lf%lf", &t, &w[0], &w[1], &w[2], &w[3]) == 5);

1. Indicate, in detail, how this code was tested.

First, we did constant power input and checked that the temperature leveled out over time and age increased linearly. Next, we made one core have higher power than the other three and checked it. If one of the cores had more power input, then the temperature was higher for that core. Consequentially, age increased for that core as well. We used .8 for r and .03 for c. When we changed r and c, the output changed as expected. If we varied the power input, the temperature varied as expected. If we set the power to 0, the temperature became ambient.