**Abstract**

The goal of the lab is to produce a blinking LED light connected to a circuit on the Raspberry Pie. A circuit was built using a breadboard, LED, and a resister. Code was written in C blink the LED. The instructions of the lab were followed and produced a blinking LED light.

**Design Methodology**

Code was written to toggle power on a specific pin using registry values of the Raspberry Pie. A delay function in milliseconds was written; this incorporated the for loop’s number of instructions, instruction’s number of cycles, and the Raspberry Pie’s clock speed.

**Results and Analysis**

A blinking LED was produced, although the delay between toggling states was longer than expected from the calculation.

**Conclusions**

Even though the LED blinked (which was the goal of the lab), it was at an incorrect speed (the lab had specified a delay of 1 second) which shows that either the math or the given variables were incorrect.