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ECE 411 – MP1 Test Plan

09/14/17

Testing such a large system in such a small amount of time was initially a daunting task. I decided I would break the testing down into two parts, individual instruction tests as well as running the provided test code. If my individual unit tests passed then theoretically the whole system should work fully because instructions are independent of the previous instruction.

I developed test programs that would test only a small set of similar instructions being sure to test different base registers or immediate values. I then ran these small snippets of code to be sure that the LC3b behaved as expected and that the proper control signals were set.

After writing the small individual code segments I