

ECE 265

Computer Problem #1

The purpose of this computer problem is to become familiar with the THRSim11 simulator that is used in the course. The THRSim11 simulator also includes an editor, assembler, and a number of other features so that you can write and test your programs for the M68HC11.

Your basic task in this problem is to run THRSim11 and assemble and simulate one of the test programs that comes with the simulator. To do so, work through the following steps:

1. Run THRSim11. Under the Help → Contents menu, work through the tutorial entitled “A quick introduction to get started.”
2. After you have assembled and simulated the test0.asm program, complete the following additional steps.
3. Edit the test0.asm program to include you and your partner’s names in the first few lines of the program. Re-assemble the program.
4. Open a Memory List from under the View menu.
5. Change the values of OPER1 and OPER2 to some values that will give you overflow. You can make these changes in the Memory List window.

After you have produced the new results in the Memory List window, print copies of the following two pages and turn them in by the due date:

1. test0.LST
2. Memory List