

ECE 375 Prelab 3

Lab Time: Wednesday 10 AM- 11:50 AM

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TA Signature

1 Questions

1. What are some differences between the debugging mode and run mode of the AVR simulator? What do you think are some benefits of each mode?

Debugging mode runs the program line by line and run mode runs the program continuously.

2. What are breakpoints, and why are they useful when you are simulating your code?

Breakpoints pause the simulation at areas known to be "buggy". They are useful, because it can save time when debugging.

3. Explain what the I/O View and Processor windows are used for. Can you provide input to the simulation via these windows?

The I/O view contains the the configuration registers associated with the chip. The processor displays the current contents of the program window, stack pointer, 16-bit pointer registers and status register. You can provide input to the simulation via the I/O view.

4. The ATmega128 micro-controller features three different types of memory: data memory, program memory, and EEPROM. Which of these memory types can you access by using the Memory window of the simulator?

Data and program memory

2 Reference

AVR Starter Guide