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ECEN 4243: Computer Architecture

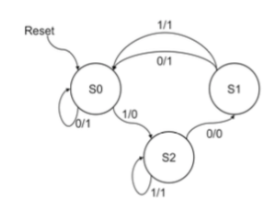
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Lab 1: Revisiting Digital Logic and Verilog Simulation

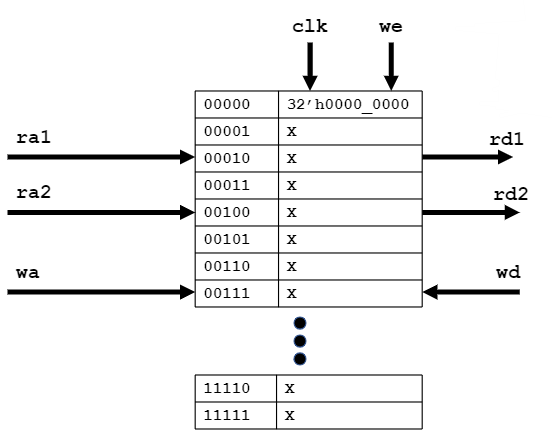
**Section 1: Introduction**

The purpose of this lab is to introduce the Verilog tools that will be utilized in this class. Using code already provided, this lab introduced how to use ModelSim to view the output waveforms of an FSM. Students were able to read through the code and learn how to utilize a DO file in order to see the waveform inputs and outputs in the application. The second part of this lab introduced how to write code, a test bench, and modify a DO file in ModelSim in order to show both the input and the output waveforms for a register. The code for the register was created following guidelines given for this lab. The test bench code was written to test the various guidelines given, and the DO file was only slightly changed from the FSM’s DO file. All in all, this lab introduced students to ModelSim and reminded students how to code in Verilog.

**Section 2: Baseline Design**

Part 1: FSM Simulation

The figure above is a basic Mealy Finite State Machine (FSM). The code was given for this part, but all the code did was explain what this diagram does. This FSM works with inputs and outputs. Based on whether the input is a one or a zero will determine if this FSM moves on to the next state or not, and its output depends on the input as well. For example, in the above FSM, if the input is a zero, then it will stay in S0 with an output of one. If the input is a one, however, it will move from S0 to S2 and output a zero. All this is seen using the given test bench and the DO file that output the various waveforms for the various states of this FSM.

Part 2: Register File and Simulation

The second part of the lab was to create the code, test bench, and DO file for a register. A file was given that contained the variables needed to write the code in order implement the register. For the inputs, there are two 5-bit source register numbers (ra1, ra2), one 5-bit destination register number (wa3), one 32-bit wide date port for writes (wd3), one write enable signal (we3), a clock (clk), and two 32-bit register values (rd1, rd2) for the outputs. The register behaves as follows: Writes take effect synchronously on the rising edge of the clock and when write enable is asserted high, the read port should output the value of the selected register combinatorically, the read port will update on the rising clock edge when reading and writing the same register, reading register zero always return the value zero, and writing register zero has no effect. The test bench will verify these conditions, and the DO file implements the test bench in order to prove the correct outcomes have occurred with the waveforms.

**Section 3: Design**

For part one of this lab, an FSM design was provided in the form of a mealy machine. The design for that part was already provided for the students. The purpose was to study the design and understand how it was being implemented using Verilog code. This was also used to re-familiarize students to Verilog and to bring comfortability to using Verilog code, along with introducing students to the software’s that would be used throughout the semester. Looking at the code for the first part of the lab revealed understanding about how the code flowed and connected and observing the output waveforms verified the results. When looking at the code for the FSM we observed how it was constructed and implemented. Also, observing the FSM test bench allowed for seeing what results should be expected and allowed for further understanding of how all the parts work together. This helped in the second part of the lab when tasked with using a provided register file skeleton code to write our own register file. The bare bones were provided, however students had to write their own logic to implement the guidelines in the lab manual. The lab report stated that the register file must include, for input, two 5-bit source register read ports, one 5-bit destination register write port, one 32-bit data port for writes, a write enable signal, and a clock. As well as two 32-bit register values for reading outputs. This was all provided in the register file for students to observe and to glean the portion that was left to write in the register file. What was left to write in the register file was the logic to implement the tasks that were laid out in the lab manual. These guidelines were as follows:

* Writes should take effect synchronously on the rising edge of the clock and only when write enable is also asserted (active high).
* The register read port should output the value of the selected register combinatorially.
* When reading and writing the same register, the read port will update on the rising clock edge. The read port is still combinatorial.
* Reading register zero ($0) should always return (combinatorially) the value zero.
* Writing register zero has no effect.

The goal was to write the rest of the System Verilog code to implement these criteria into the provided register file to make a working register file. In the logic part of the register file we decided to implement an always combinational section under which we produced logic to check and read the above mentioned read ports. Then, as the lab manual said, we implemented the write enable on the positive edge of the clock signal and instructed what registers to point to in order to write the data to the proper register. This completed the register file and we then moved on to create a test bench that allowed us to test if the register file would take inputs that are expected and output them correctly. This part of the implementation will be discussed in the next section.

**Section 4: Testing Strategy**

We were tasked with creating our own test bench for part two of the lab. We looked at the FSM test bench and used that as a guide to write our own test bench for the register file. After working through what we needed and what variables we needed to change we only really had one section left. That section consisted of the main test in which we asserted values to the registers randomly to see if what went in came out. We made sure that the actions that were supposed to happen on the rising edge of the clock were happening when they were supposed to and also that they were showing the correct values. We asserted the write enable high at an arbitrary time and then we proceeded to make sure that when we set a value to the write data register that the value we observed in simulation was correct. We then checked other test cases, such as when write enable was low, which should not allow for writing. We also checked to make sure that with the time increments that we were implementing that the timing of when signals changed made sense. This was the majority of our testing and allowed for us to check and make sure that the implementation was behaving the way we were asked to have it behave. We chose to choose random defined numbers to set the registers to so that we could easily identify the outputs of the simulation. We also had to update our DO file to allow ModelSim to simulate the new files we created. This was done by adding the names of our files to the Do file and then running the simulation. This approach seemed most reasonable and straight forward to observe if the proper behavior was being produced. Below is a table showing the input and output behavior of the implementation that we obtained through simulation.



As you can see when the above values are asserted they produce the correct results that we were trying to obtain through our test bench.

**Section 5: Evaluation**

Part 1: FSM Simulation Results

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The results seen in the picture above prove that the given code matches the diagram of the FSM. Having the given code for the FSM and studying these results served as a reminder of how the test bench is able to prove the code for the FSM works as intended. In summary, Part 1 of this lab has improved the knowledge for using ModelSim for writing and testing code.

Graphical user interface

Description automatically generatedPart 2: Register File Simulation Results

The results seen above prove that the register is working as directed. The first thing proven is that while the write enable (we3) is set to low, nothing else will work. The next thing proven is that writes take effect on the rising edge of the clock.