ELC 2137 Lab 1: Git and LaTeX Intro

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Summary

This lab requires a student to follow an introduction to Git and LaTeX in order to submit a report. In doing this, the student should be able to describe the basic Git process, synchronize local and remote files in a repo using GitHub, and create a lab report in LaTeX that includes images, code, lists, tables, and section headings.

Q&A

1. What is your GitHub user name?

   My user name is Alackey21.

2. What LaTeX environment produces a bulleted (non-numbered) list?

   The bulleted list without numbers is an itemize environment.

3. Write the equation $y(t) = 1/2e^t$ using LaTeX equation formatting.

   $y(t) = \frac{1}{2}e^t$

4. What is the shortcut key for compiling your LaTeX document?

   To only compile and not view your LaTeX document simply press the F6 button. Use F5 to compile and view the document.

Results

This figures corresponding to the results section are included on the following page.

Binary	Hex	Decimal
0000	0	0
0010	2	2
0100	4	4
0110	6	6
1000	8	8
1010	A	10

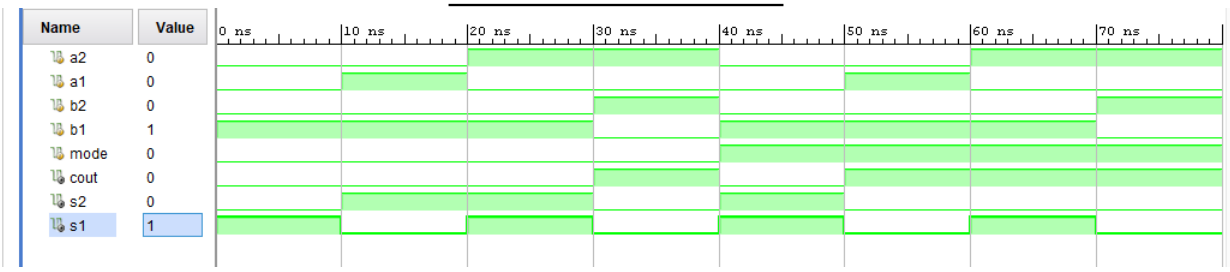

Figure 1: This Table displays the simulation waveform and table for reproduction.

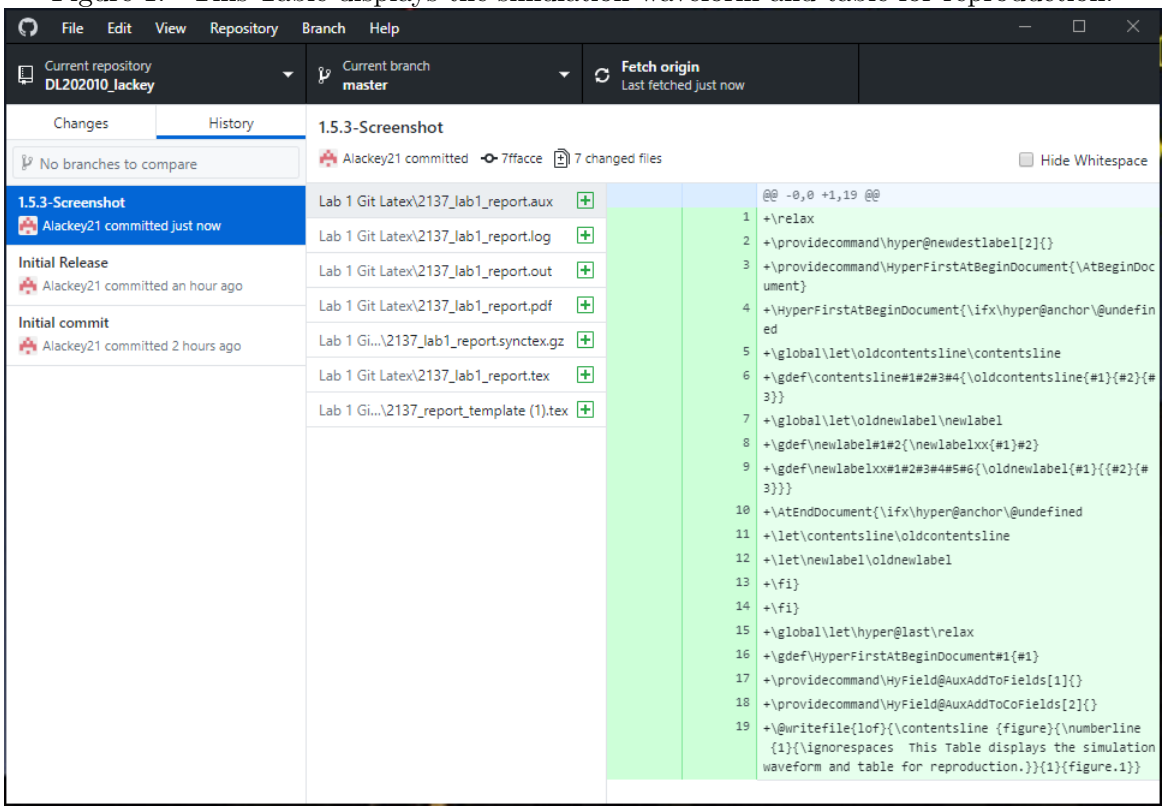

Figure 2: This screenshot corresponds to step 1.5.3 in the Lab 1 instructions.

Code

Listing 1: Direct Verilog code example

```
module example
#(parameter BITS=4)
(
input [BITS-1:0] in0, in1,
input sel,
output [BITS-1:0] out
);

// Choose in1 or in0
out = sel ? in1: in0;
endmodule
```