

ELC 2137 Lab 1: Git and LaTeX Intro

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Summary

This lab introduces two tools suited for programming. One is a control software, Git. It helps you keep track of the modifications people make to the code project and collaborate with others. LaTeX is a typesetting language produce professional-looking documents. The software helps you focus on working the quality of work because it will help you do the format by coding on it. During this lab, an account of Git is created for each individual student. Intorduces basic operation of uploading files and updating new status of the project to Git. About the LaTeX, lab report was require to be done on the software. Learning functions on the TeXstudio to put chart and figures in your file.

Q&A

1. What is your GitHub user name?

Xingpeng-Yi.

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

Itemize environment

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

$y(t) = 1/2 e^t$

4. What is the shortcut key for compiling your La-Tex document?

F5

Results

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

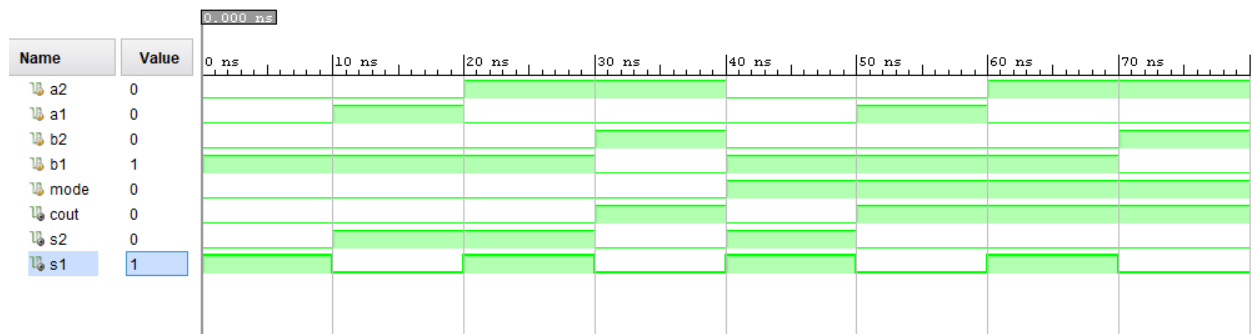


Figure 1: Table and simulation waveform to reproduce.

Code

```

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

```