Noah Hanks

ECEN 323

xc7a35tcpg236-1

ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQCqahzWPW3UtBvckTSj/Xv9S9rY515PnMvpdR6Rlnmaz5heguLoJ0YZdxBceCCFlHUwEtnp6+lGz6iX4wSD9GyEvLmugH498RPXm6gEvfhcrOyYDrJ0Cd3Olnv2TYLizpRQhWqKe2lIxqvLE1HIeromEaoVYF6vH4PCYzYewveUJvR4rCQO7N3mCIZv3jRzjJ18rj+OT3X7MZ5wI11D4W7W89o1zYToH3WLkGBsL3WR2/3VUf8wFVpckHggI1GGoTLVxMY5L5Iik3TLToNJhszdtmf2P0oDXo2y/fZuS+ws2/wbI0XoutjuwfPkhevWdCWwseBiERduH0C2E6gG9LbB nhanks10@DIGITAL-54

Lab 1 Writeup

What is the preferred way to communicate with the TAs and instructor for laboratory assignments?

* Through the slack lab channel for each lab

What portion of your composite laboratory grade is the “Lab Report” component?

* 40%

How do you submit a laboratory report in this class?

* The lab report is completed online as a Learning Suite exam

When are laboratory lab reports due?

* The laboratory report for all students is due at midnight on the Wednesday during the week after the laboratory is introduced.

Are late lab reports accepted?

* No

How are files submitted for the passoff section of the lab?

* All of your files will need to be submitted using a personal GitHub repository.

When are laboratory Pass Offs due?

* The laboratory passoff files will be due at midnight one week after the laboratory is introduced.

Are late lab passoffs accepted?

* Yes

Which activities are acceptable in the Digital Lab?

* No sharing passwords, food or drink,

Provide the URL of your class GitHub repository.

* //<https://github.com/byu-cpe/ecen323_student>
* [git@github.com](mailto:git@github.com):byu-ecen323-classroom/323-labs-ROFLpwn01.git
* <https://github.com/byu-ecen323-classroom/323-labs-ROFLpwn01>

Make sure the file ‘aboutme.txt’ is committed in the ‘lab01’ directory of your repository.

* Done

What type of git repository will you be creating for this class?

* class GitHub repository
* Assignment repository

What git commands should you run to update the starter code in your repository throughout the semester?

* git clone
* Git remote
* git fetch
* Git merge

Which git commands should you use when submitting your files for the passoff portion of the lab?

* git tag
* Git push

Indicate the version of Vivado that is installed in the digital lab.

* 2019.2

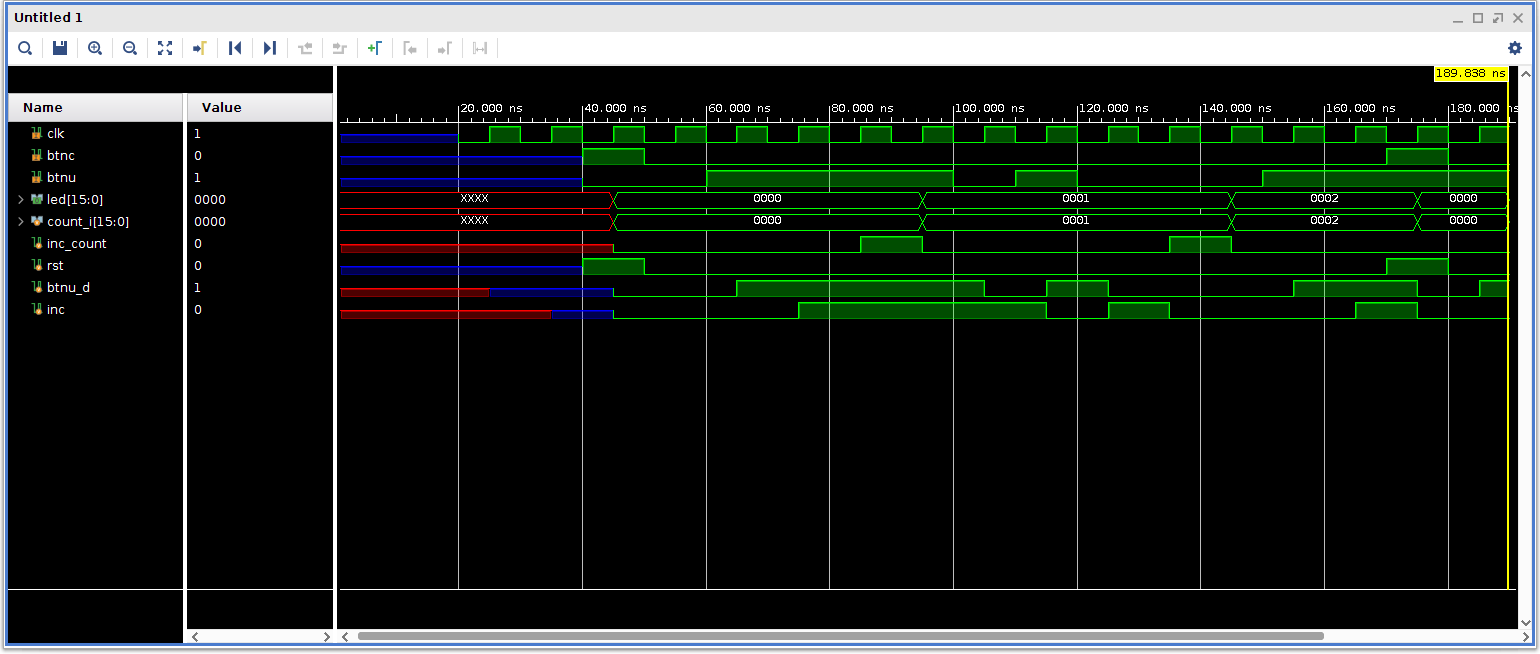
What line of code in this file describes the logic used to assign the count value to ‘zero’ when the ‘rst’ signal is asserted? .

* 69 and 70
* if (rst)
* count\_i <= 0;

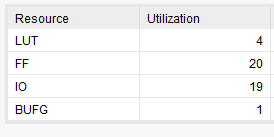
Complete the questions about the waveform in the laboratory report.

* 

Answer the questions in the lab report regarding the results of this waveform out.

* 

Indicate the number of resources consumed by this design in the laboratory report.

* 44
* 

Determine the “Worst Negative Slack” or WNS of this circuit.

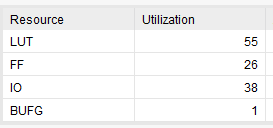
* 7.673 ns

You will need to include the UpDownButtonCount.sv file as part of your “Pass Off” below.

You will need to submit the UpDownButtonCount\_sim.tcl file as part of your “Pass Off” below.

You will need to include the UpDownButtonCount.xdc file as part of your “Pass Off” below.

Indicate the number of resources consumed by your new design in the laboratory report.

* 

Determine the “Worst Negative Slack” or WNS of this circuit.

* 5.489 ns

You will need to include the UpDownButtonCount.jpg file as part of your “Pass Off” below.

How many hours did you work on the lab?

Provide any suggestions for improving this lab in the future.