EEL3701C
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Section: 11198

Lab 7 Quiz

Congratulations on getting through all the labs! This is your very last lab quiz!

Time Limit: 60 minutes

Description:

Using the GCPU, write an assembly program that reads in a value N from RAM stored at $1037. Using a loop, store the sequence 1, 2, … N, starting at $1000. (Therefore, you can assume that the N will be less than $37.) Your program should end properly (i.e., you should make sure it enters an infinite loop when it is finished.)

Hint: Take advantage of the RAM to temporarily store any values that you will need.

Once you have written the assembly, hand assemble it, produce a MIF file (make sure to modify the SRAM appropriately) and simulate the design in Quartus. You are allowed to use the provided G-IDE, but the final result should be shown in Quartus.

Submit your MIF file, and an image of your simulation to Quiz 7 – Generic on Canvas. You do not have to submit a .qar file for the GCPU. Anything else should be submitted to Quiz 7 – Phone.