HW 9; Due November 18\textsuperscript{th}

E85 – Fall 2015

Please turn in 2 parts: A, and B as separated documents (stapled or paper clipped etc.). Put your name on all pages.

Part A (50%):

4.30, 4.50 (a-g)

Part B (50%):

7.1

Design a 16-bit counter in HDL that counts up to an arbitrary 16 bit number before returning to 0. Also allow for an arbitrary increment value. First draw a schematic for the counter then write the HDL.

Examples of counter function:

SetValue = 3. Inc = 1. Counter Output: 0, 1, 2, 3, 0, 1, 2, 3...

SetValue = 25. Inc = 4 Counter Output: 0, 4, 8, 16, 20, 24, 0, 4...

Survey:

How much time did you spend on this assignment?