

Homework #4

Grading will be based on:

- Correctness of the design [40 %]
- Compliance with specifications [10 %]
- Effectiveness of testing [40 %]
- Coding style [10%]

Design and test a circuit that takes as input a serial bit stream and outputs a '1' whenever the sequence "1111" occurs. Overlaps must also be considered, that is, if **...001111110...** occurs then the output should remain active for three consecutive clock cycles.