LSU EE 4755

Problem 1: The solution to Homework 4, http://www.ece.lsu.edu/koppel/v/2017/hw04-sol.v.html, includes two modules, maxrun and maxrun_opt.

(a) Show the hardware inferred for maxrun.

(b) Show the hardware inferred for maxrun_opt.

Problem 2: Compute the critical path for the maxrun and maxrun_opt modules using the simple model. The launch points (path starts) are at module inputs and register outputs, and the capture points (path ends) are at module outputs and register inputs. Note that with these definitions the critical path does not include the register itself. Show the critical path in terms of w, the number of bits in the len output and c the number of bits in a character.