

COA Lab Assignment 3
Group number 6
18CS30005 - Aditya Singh
18CS30021 - Itish Agarwal

Part 1 : Combinational Unsigned Binary Multiplier (Array Multiplier);
Critical Path Delay - 11.156
Hardware Requirement -
Slice LUTs (63400) - 44
Bonded IOB (210) - 24

Part 2 : Sequential Unsigned Binary Multiplier (left-shift version);
Critical Path Delay - 4.090
Hardware Requirement -
Slice LUTs (63400) - 29
Slice Register(126800) - 27
Bonded IOB (210) - 27
BUFGCTRL - 1

Part 3 : Sequential Unsigned Binary Multiplier (right-shift version);
Critical Path Delay - 4.090
Hardware Requirement -
Slice LUTs (63400) - 18
Slice Registers (126800) - 27
Bonded IOB (210) - 28
BUFGCTRL - 1