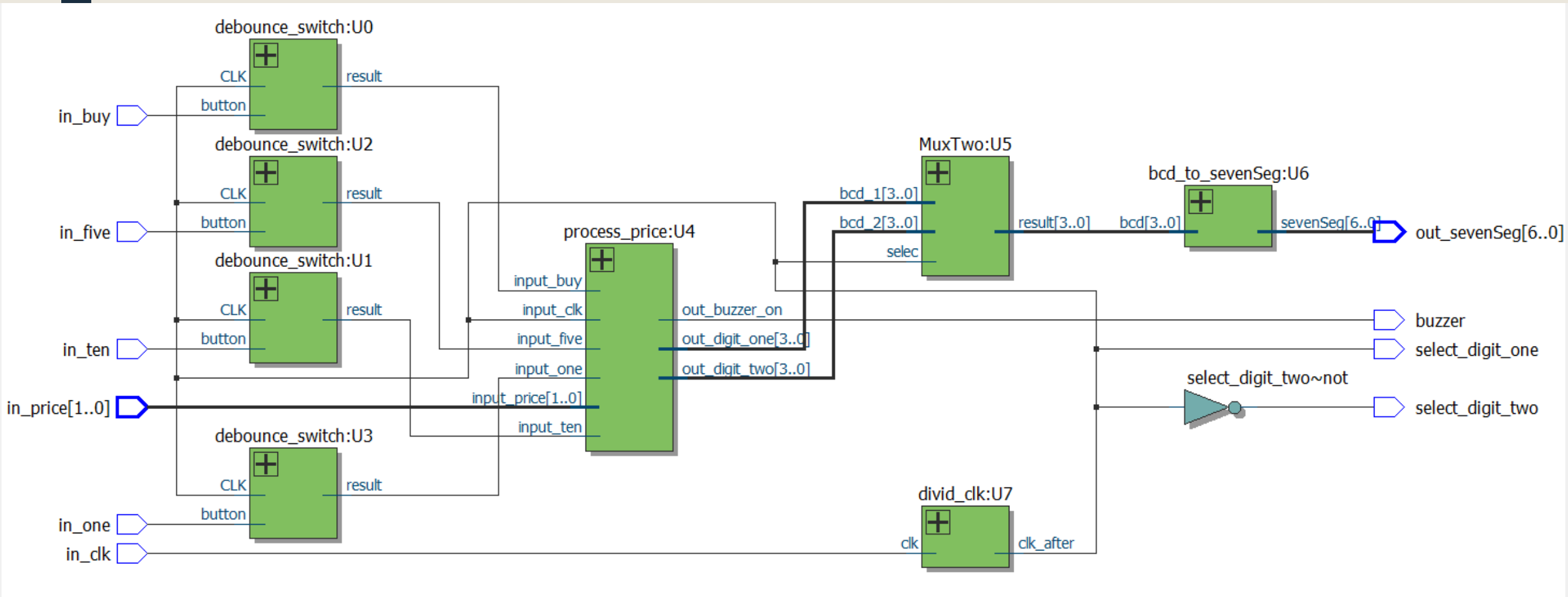
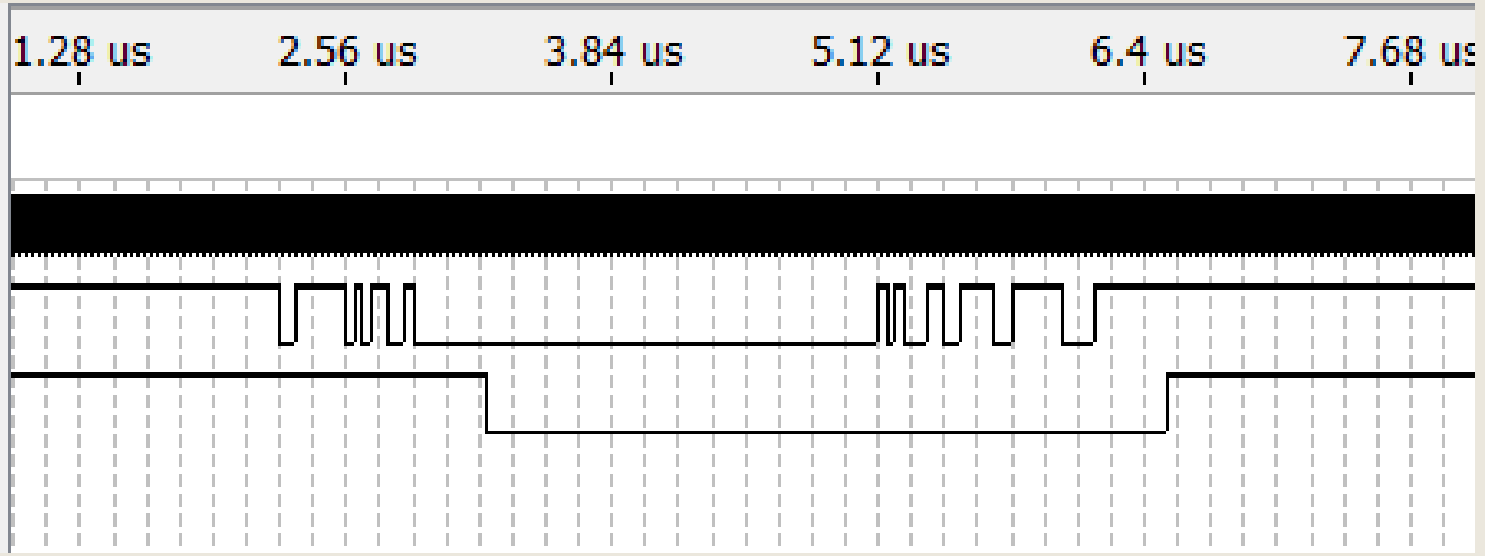
LOGIC DESIGN OF DIGITAL SYSTEMS

Mini Project : เครื่องขายสินค้าอัตโนมัติ

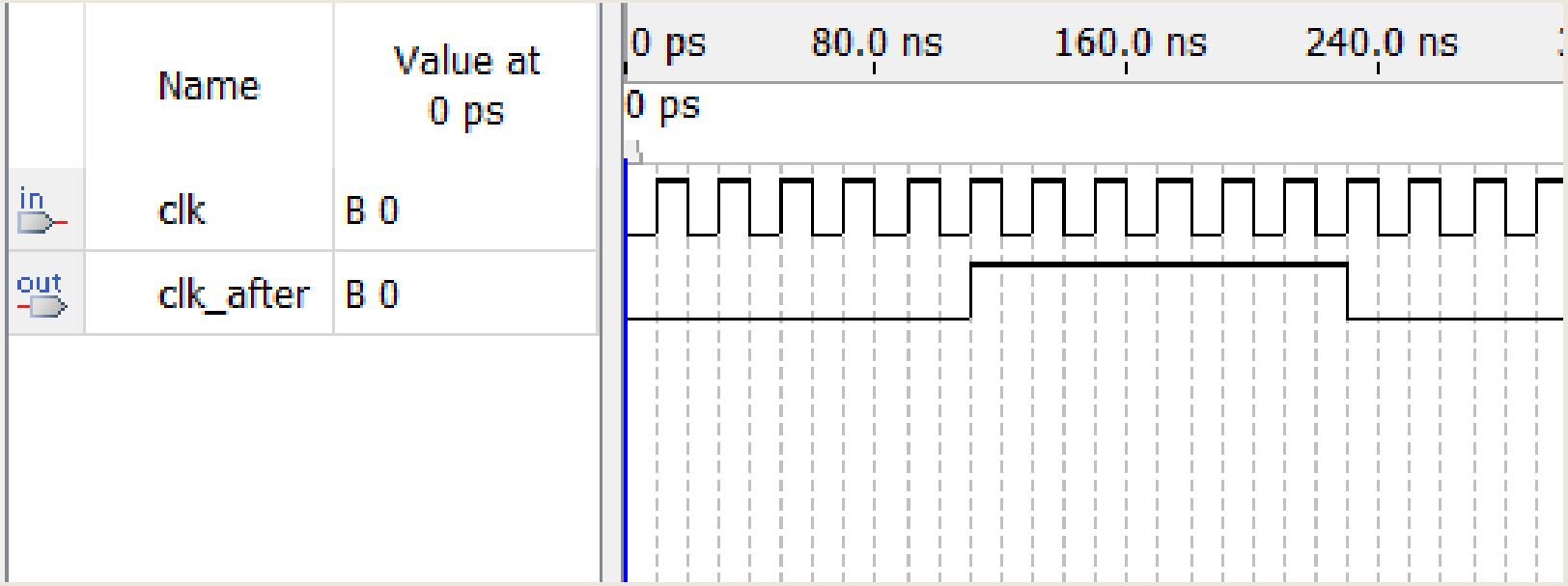

debounce_switch:U0
CLK
button
result
in_buy
debounce_switch:U2
CLK
button
result
in_five
debounce_switch:U1
CLK
button
result
in_ten
in_price[1..0]
debounce_switch:U3
CLK
button
result
in_one
in_clk
process_price:U4
input_buy
input_clk
input_five
input_one
input_price[1..0]
input_ten
out_buzzer_on
out_digit_one[3..0]
out_digit_two[3..0]
MuxTwo:U5
bcd_1[3..0]
bcd_2[3..0]
selec
result[3..0]
bcd_to_sevenSeg:U6
bcd[3..0]
sevenSeg[6..0]
out_sevenSeg[6..0]
buzzer
select_digit_one
select_digit_two~not
select_digit_two
divid_clk:U7
clk
clk_after

debounce_switch

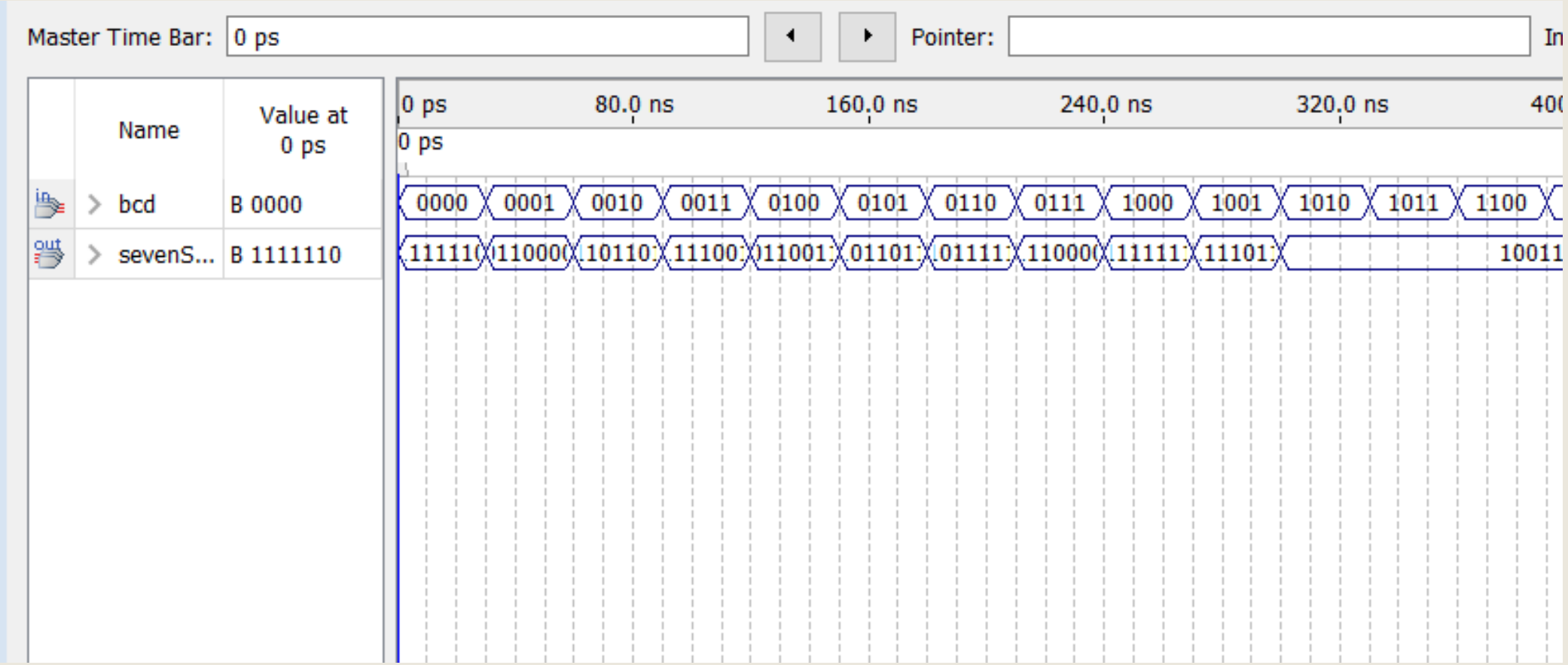
	Name	Value at 0 ps
in	CLK	B 0
in	button	B 1
out	result	B 0



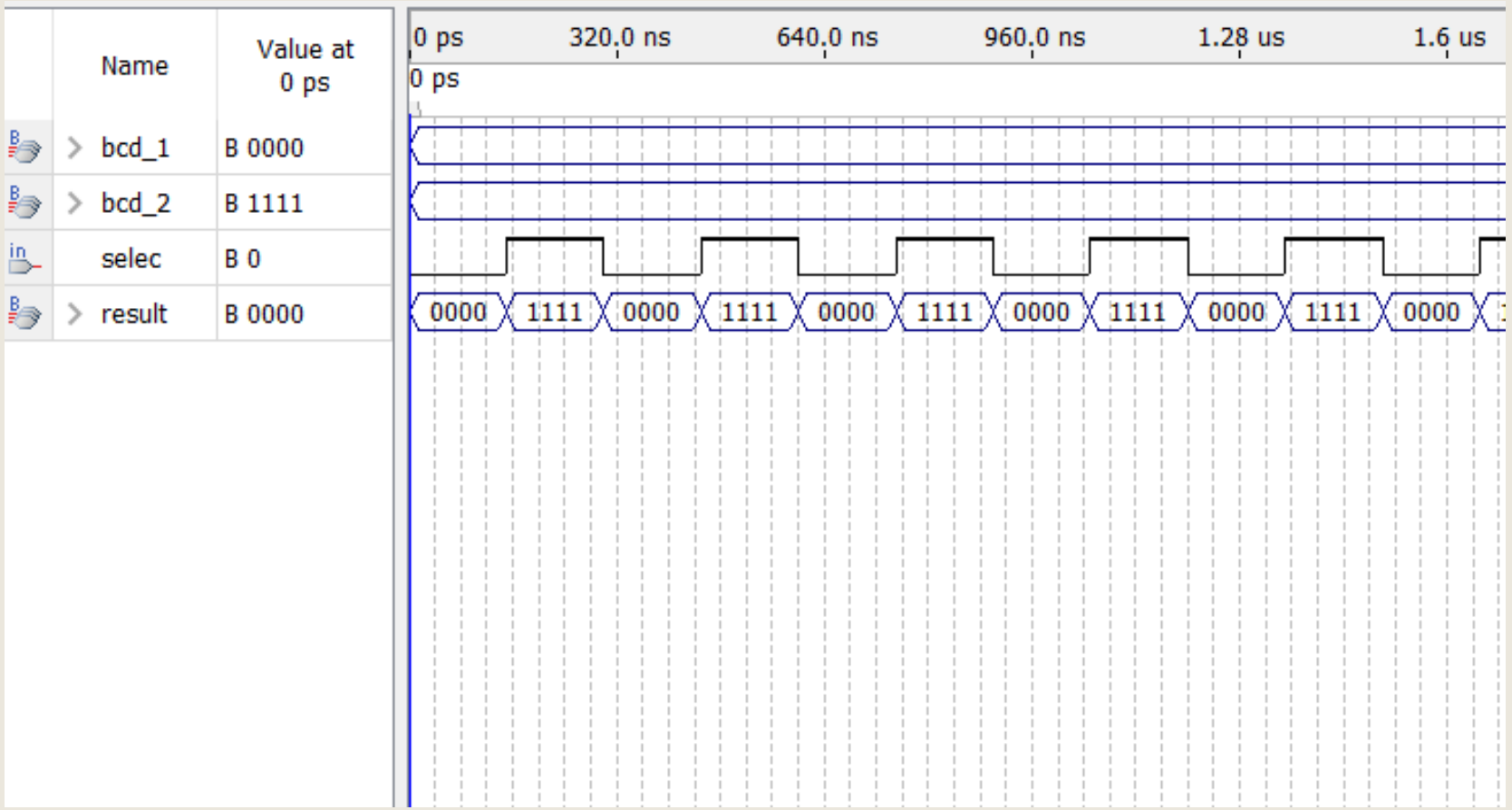
divid_clk :


Name
Value at
0 ps
clk
B 0
clk_after
B 0
0 ps
80.0 ns
160.0 ns
240.0 ns
0 ps

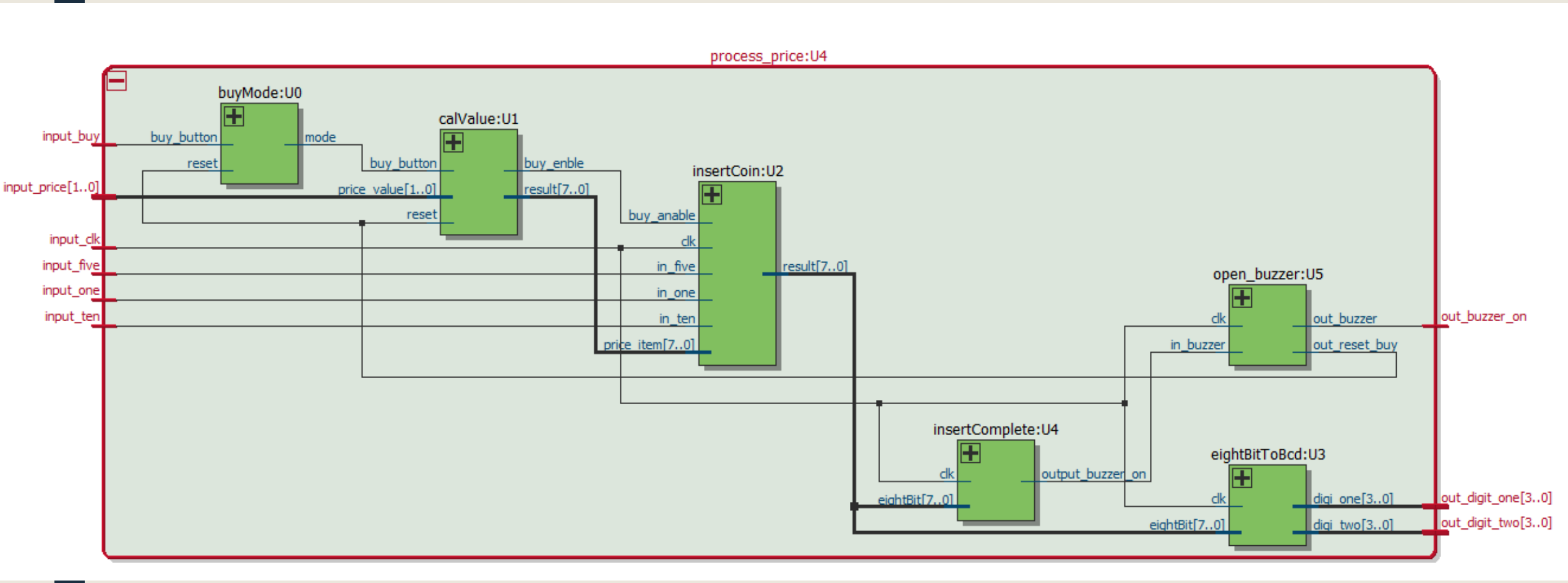
bcd_to_sevenSeg

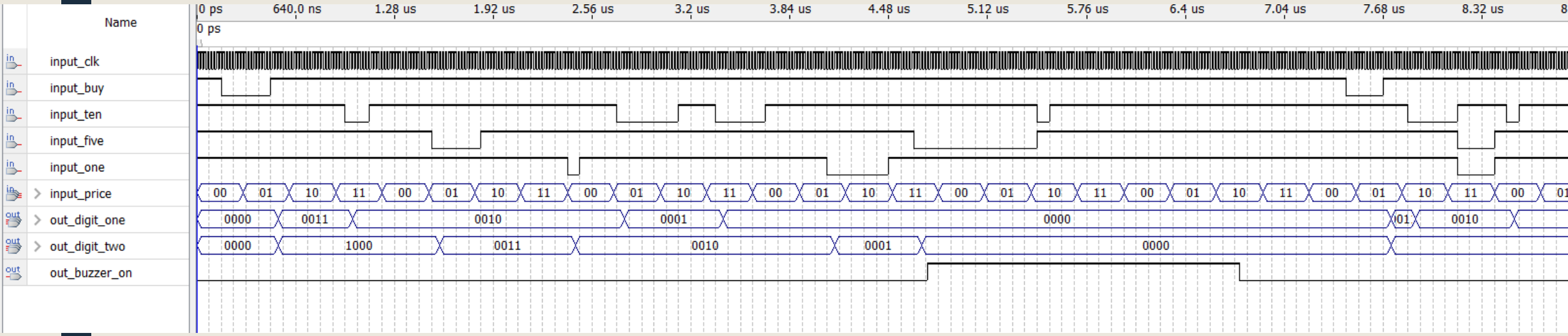


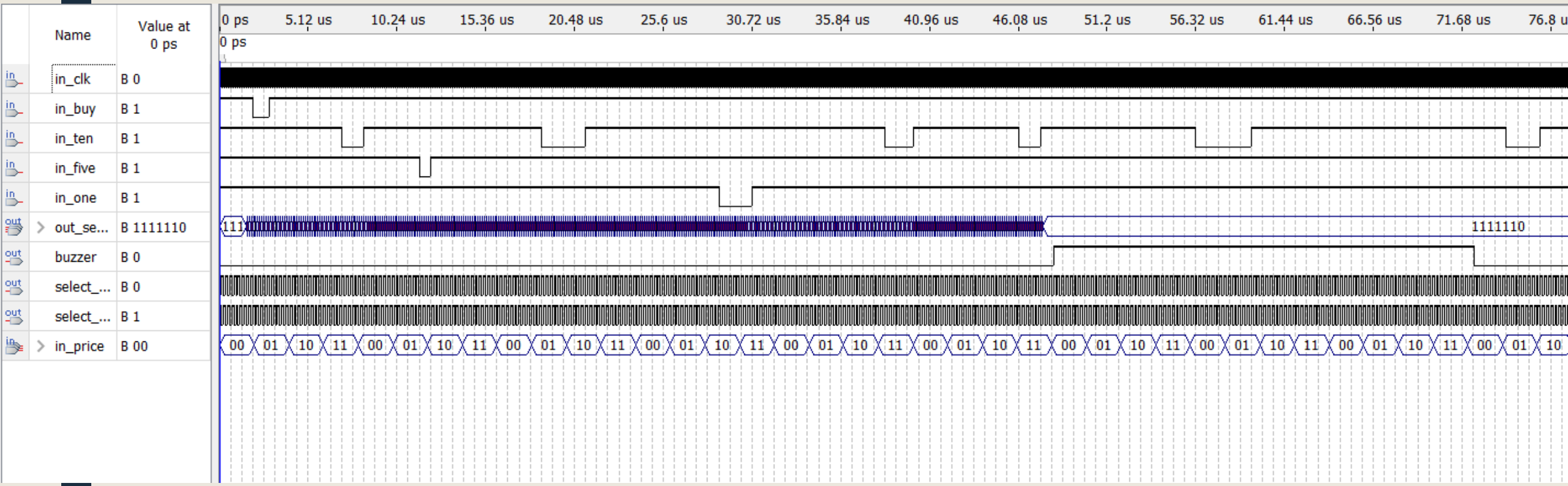
MuxTwo


Name
Value at
0 ps
bcd_1
B 0000
bcd_2
B 1111
selec
B 0
result
B 0000
0 ps
320.0 ns
640.0 ns
960.0 ns
1.28 us
1.6 us
0 ps
0000
1111
0000
1111
0000
1111
0000
1111
0000
1111
0000

process_price




Name
0 ps
640.0 ns
1.28 us
1.92 us
2.56 us
3.2 us
3.84 us
4.48 us
5.12 us
5.76 us
6.4 us
7.04 us
7.68 us
8.32 us
input_clk
input_buy
input_ten
input_five
input_one
input_price
out_digit_one
out_digit_two
out_buzzer_on
00 01 10 11 00 01 10 11 00 01 10 11 00 01 10 11 00 01 10 11 00 01 10 11 00 01 10 11 00 01 10 11 00 01
0000 0011 0010 0001 0000 01 0010
0000 1000 0011 0010 0001 0000


Name
Value at 0 ps
0 ps
5.12 us
10.24 us
15.36 us
20.48 us
25.6 us
30.72 us
35.84 us
40.96 us
46.08 us
51.2 us
56.32 us
61.44 us
66.56 us
71.68 us
in_clk
B 0
in_buy
B 1
in_ten
B 1
in_five
B 1
in_one
B 1
out_se...
B 1111110
111
1111110
buzzer
B 0
select_...
B 0
select_...
B 1
in_price
B 00
00 01 10 11