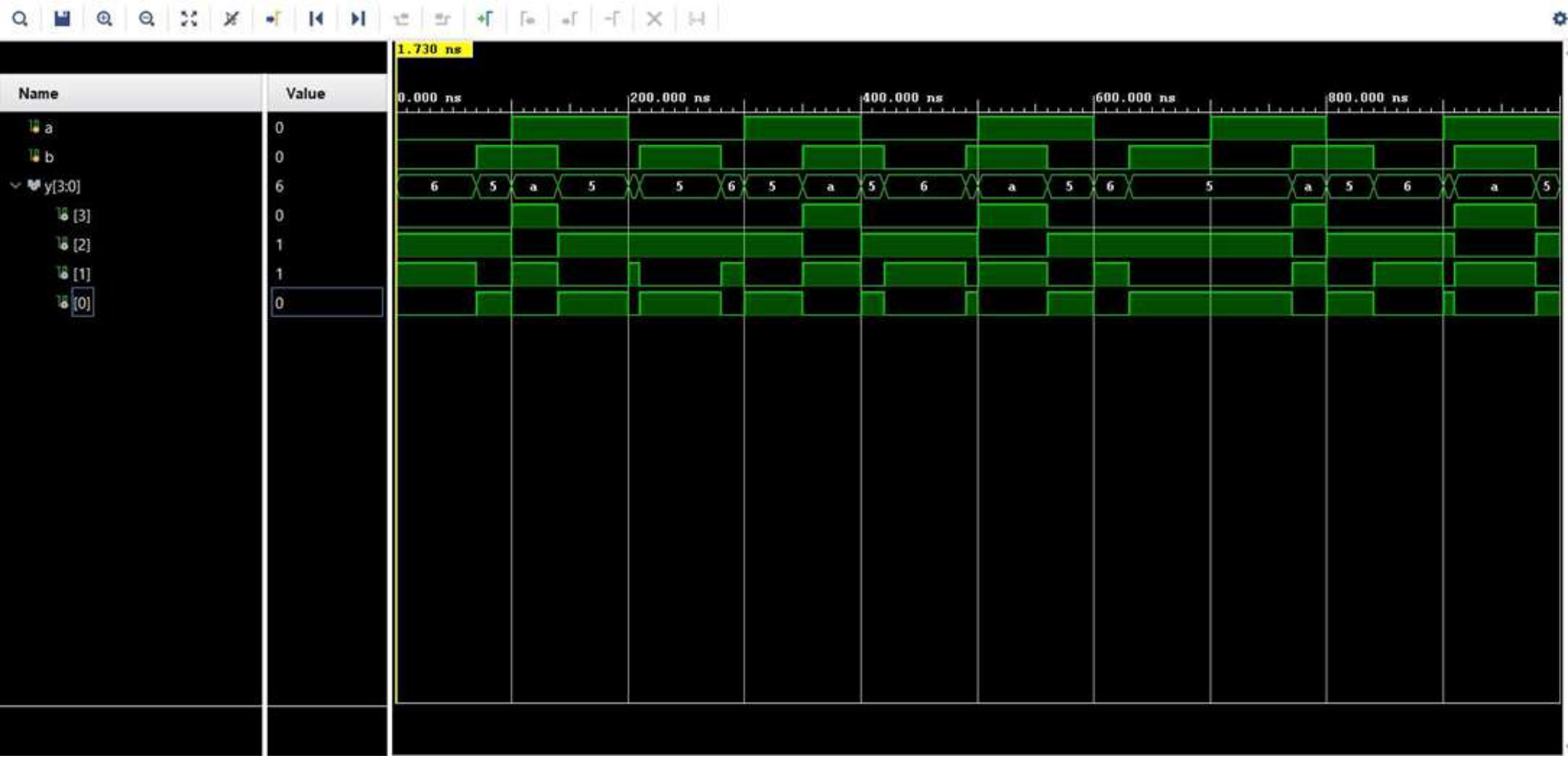
1.730 ns
Name
Value
a
0
b
0
y[3:0]
6
[3]
0
[2]
1
[1]
1
[0]
0
0.000 ns
200.000 ns
400.000 ns
600.000 ns
800.000 ns
6 5 a 5 5 6 5 a 5 6 a 5 6 5 a 5 6 a 5

xor_using_2to1 - [C:/Users/raghava guptha/xor_using_2to1/xor_using_2to1.xpr] - Vivado 2023.2

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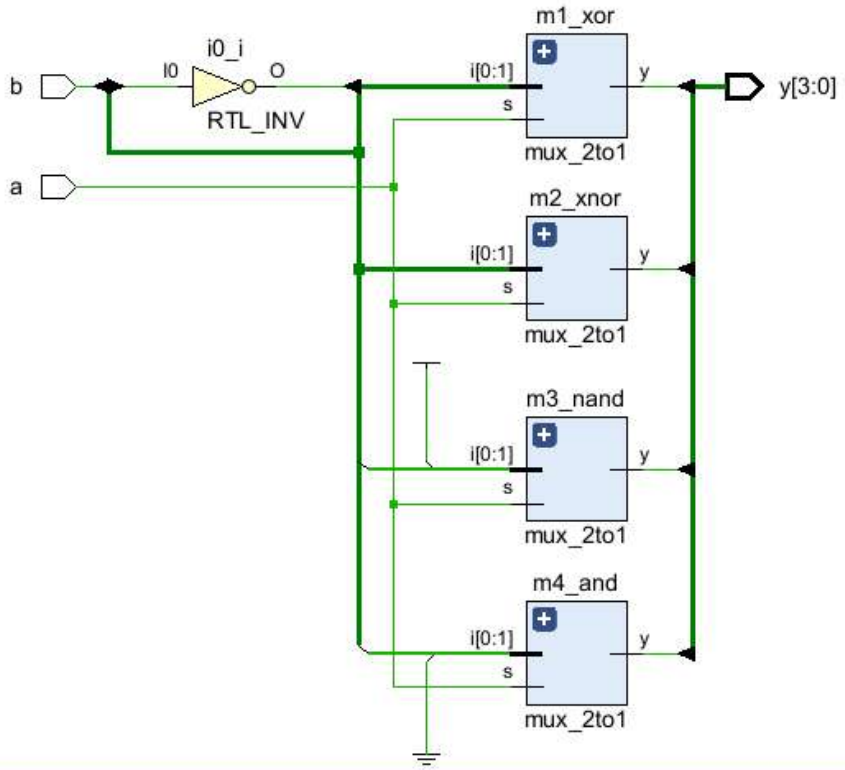
ELABORATED DESIGN - xc7a35tcpg236-1

Sources | Netlist | Source File Properties

Project Summary | Schematic | xor_using_2to1.v

5 Cells 6 I/O Ports 9 Nets

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Hot days ahead 87°F

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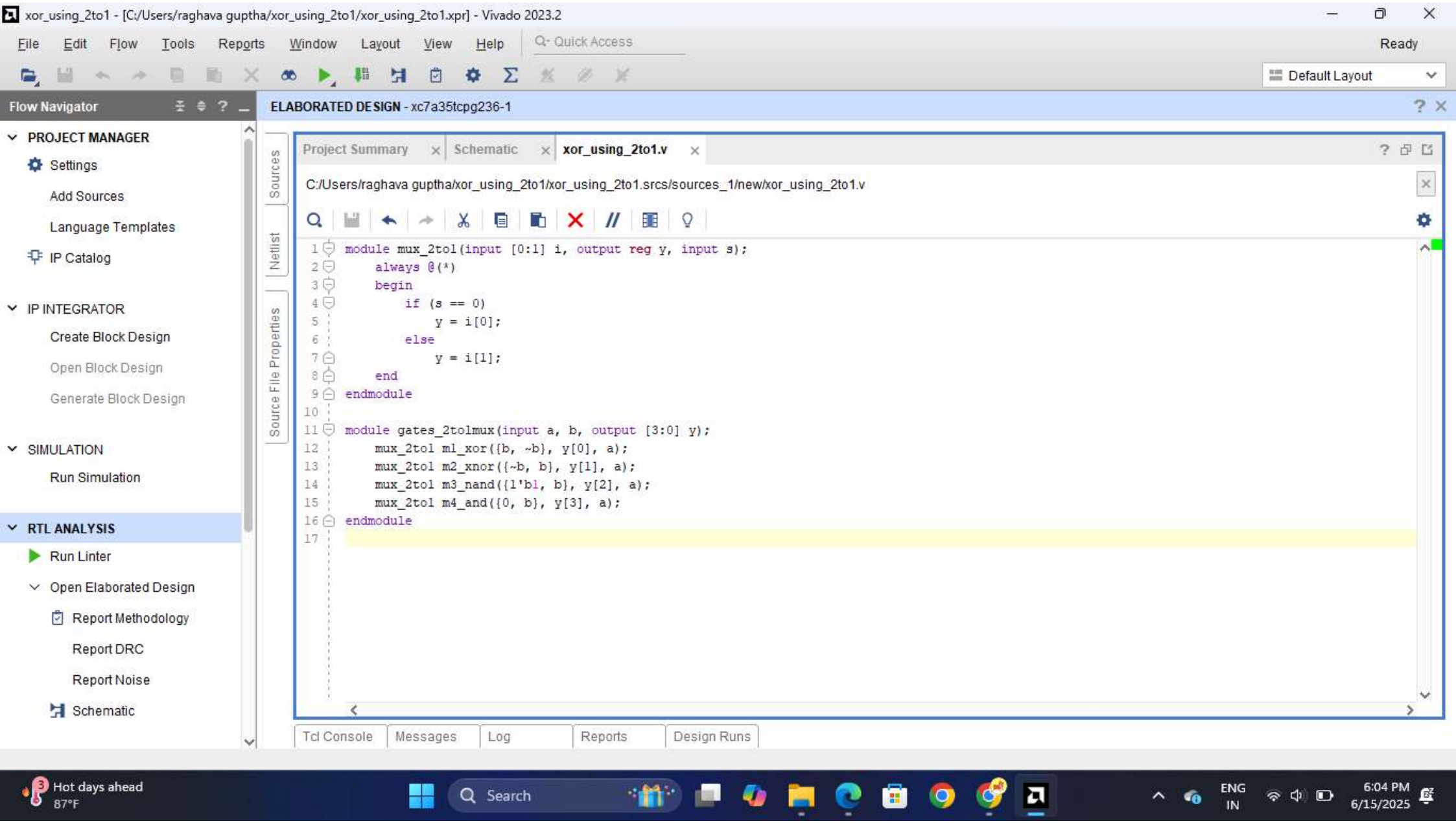
ENG IN

6:04 PM 6/15/2025


xor_using_2to1 - [C:/Users/raghava guptha/xor_using_2to1/xor_using_2to1.xpr] - Vivado 2023.2
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xor_using_2to1.v
C:/Users/raghava guptha/xor_using_2to1/xor_using_2to1.srcs/sources_1/new/xor_using_2to1.v
1 module mux_2to1(input [0:1] i, output reg y, input s);
2 always @(*)
3 begin
4 if (s == 0)
5 y = i[0];
6 else
7 y = i[1];
8 end
9 endmodule
10
11 module gates_2tolmux(input a, b, output [3:0] y);
12 mux_2tol m1_xor({b, ~b}, y[0], a);
13 mux_2tol m2_xnor({~b, b}, y[1], a);
14 mux_2tol m3_nand({1'b1, b}, y[2], a);
15 mux_2tol m4_and({0, b}, y[3], a);
16 endmodule
17
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