ALU_32_BIT - [C:/Vivado_projects/ALU_32_BIT/ALU_32_BIT.xpr] - Vivado 2025.1

File Edit Flow Tools Reports Window Layout View Run Help Quick Access Ready

100 ps Default Layout

SIMULATION - Behavioral Simulation - Functional - sim_1 - ALU_2BIT_tb

Flow Navigator | Scope | Sources | Objects | Protocol Instances

ALU_32_BIT_tb.vhd | Untitled 2

Name	Value
A_tb[31:0]	10000000
B_tb[31:0]	01111111
SEL_tb[3:0]	1110
[3]	1
[2]	1
[1]	1
[0]	0
RESULT_tb[31:0]	00000000
MUL_tb[31:0]	00111000
[31]	0
[30]	0
[29]	1
[28]	
[27]	1
[26]	0
[25]	0
[24]	0
[23]	1
[22]	1
[21]	1
[20]	0
[19]	0
[18]	0
[17]	1

/ALU_32_BIT_tb/MUL_tb[28]

1,157.272 ns

0 ps | 100,000 ps | 200,000 ps | 300,000 ps | 400,000 ps | 500,000 ps | 600,000 ps | 700,000 ps | 800,000 ps | 900,000 ps | 1,000,000 ps | 1,100,000 ps | 1,200,000 ps

0000 0001 0010 0011 0100 0101 0110 0111 1000 1001 1010 1011 1100 1101 1110 1111

00000000000000000000000000000000

00111000111000111000111000111000

Tcl Console | Messages | Log

Sim Time: 1280 ns

19°C Mostly sunny | Search | ENG IN | 15:52 31-01-2026

ALU_32_BIT - [C:/Vivado_projects/ALU_32_BIT/ALU_32_BIT.xpr] - Vivado 2025.1

File Edit Flow Tools Reports Window Layout View Run Help Quick Access Ready

100 ps Default Layout

SIMULATION - Behavioral Simulation - Functional - sim_1 - ALU_2BIT_tb

Flow Navigator | Scope | Sources | Objects | Protocol Instances

ALU_32_BIT_tb.vhd | Untitled 2

Name	Value
A_tb[31:0]	10000000
B_tb[31:0]	01111111
SEL_tb[3:0]	1110
[3]	1
[2]	1
[1]	1
[0]	0
RESULT_tb[31:0]	00000000
[31]	0
[30]	0
[29]	0
[28]	0
[27]	0
[26]	0
[25]	0
[24]	0
[23]	0
[22]	0
[21]	0
[20]	0
[19]	0
[18]	0
[17]	0
[16]	0

/ALU_32_BIT_tb/RESULT_tb[22]

1,157.272 ns

0 ps | 100,000 ps | 200,000 ps | 300,000 ps | 400,000 ps | 500,000 ps | 600,000 ps | 700,000 ps | 800,000 ps | 900,000 ps | 1,000,000 ps | 1,100,000 ps | 1,200,000 ps

0000 | 0001 | 0010 | 0011 | 0100 | 0101 | 0110 | 0111 | 1000 | 1001 | 1010 | 1011 | 1100 | 1101 | 1110 | 1111

Tcl Console | Messages | Log

Sim Time: 1280 ns

19°C Mostly sunny | Search | ENG IN | 15:51 31-01-2026

ALU_32_BIT - [C:/Vivado_projects/ALU_32_BIT/ALU_32_BIT.xpr] - Vivado 2025.1

File Edit Flow Tools Reports Window Layout View Run Help Quick Access Ready

100 ps Default Layout

SIMULATION - Behavioral Simulation - Functional - sim_1 - ALU_2BIT_tb

Flow Navigator | Scope | Sources | Objects | Protocol Instances

ALU_32_BIT_tb.vhd | Untitled 2

Name	Value
A_tb[31:0]	10000000
B_tb[31:0]	01111111
SEL_tb[3:0]	1110
[3]	1
[2]	1
[1]	1
[0]	0
RESULT_tb[31:0]	00000000
MUL_tb[31:0]	00111000
CARRY_tb	0

1,157.272 ns

0 ps, 100,000 ps, 200,000 ps, 300,000 ps, 400,000 ps, 500,000 ps, 600,000 ps, 700,000 ps, 800,000 ps, 900,000 ps, 1,000,000 ps, 1,100,000 ps, 1,200,000 ps

0000 0001 0010 0011 0100 0101 0110 0111 1000 1001 1010 1011 1100 1101 1110 1111

00000000000000000000000000000000

00111000111000111000111000111000

Tcl Console | Messages | Log

Sim Time: 1280 ns

19°C Mostly sunny | Search | ENG IN | 15:51 31-01-2026

ALU_32_BIT - [C:/Vivado_projects/ALU_32_BIT/ALU_32_BIT.xpr] - Vivado 2025.1

File Edit Flow Tools Reports Window Layout View Run Help Quick Access Ready

100 ps Default Layout

SIMULATION - Behavioral Simulation - Functional - sim_1 - ALU_2BIT_tb

Flow Navigator | Scope | Sources | Objects | Protocol Instances

ALU_32_BIT_tb.vhd | Untitled 2

Name	Value
A_tb[31:0]	10000000
[31]	1
[30]	0
[29]	0
[28]	0
[27]	0
[26]	0
[25]	0
/ALU_32_BIT_tb/A_tb[24]	
[23]	0
[22]	0
[21]	0
[20]	0
[19]	0
[18]	0
[17]	0
[16]	0
[15]	0
[14]	0
[13]	0
[12]	0
[11]	0
[10]	0
[9]	0

Tcl Console | Messages | Log

Sim Time: 1280 ns

19°C Mostly sunny | Search | ENG IN | 15:51 31-01-2026

ALU_32_BIT - [C:/Vivado_projects/ALU_32_BIT/ALU_32_BIT.xpr] - Vivado 2025.1

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SIMULATION - Behavioral Simulation - Functional - sim_1 - ALU_2BIT_tb

Flow Navigator | Scope | Sources | Objects | Protocol Instances

ALU_32_BIT_tb.vhd | Untitled 2

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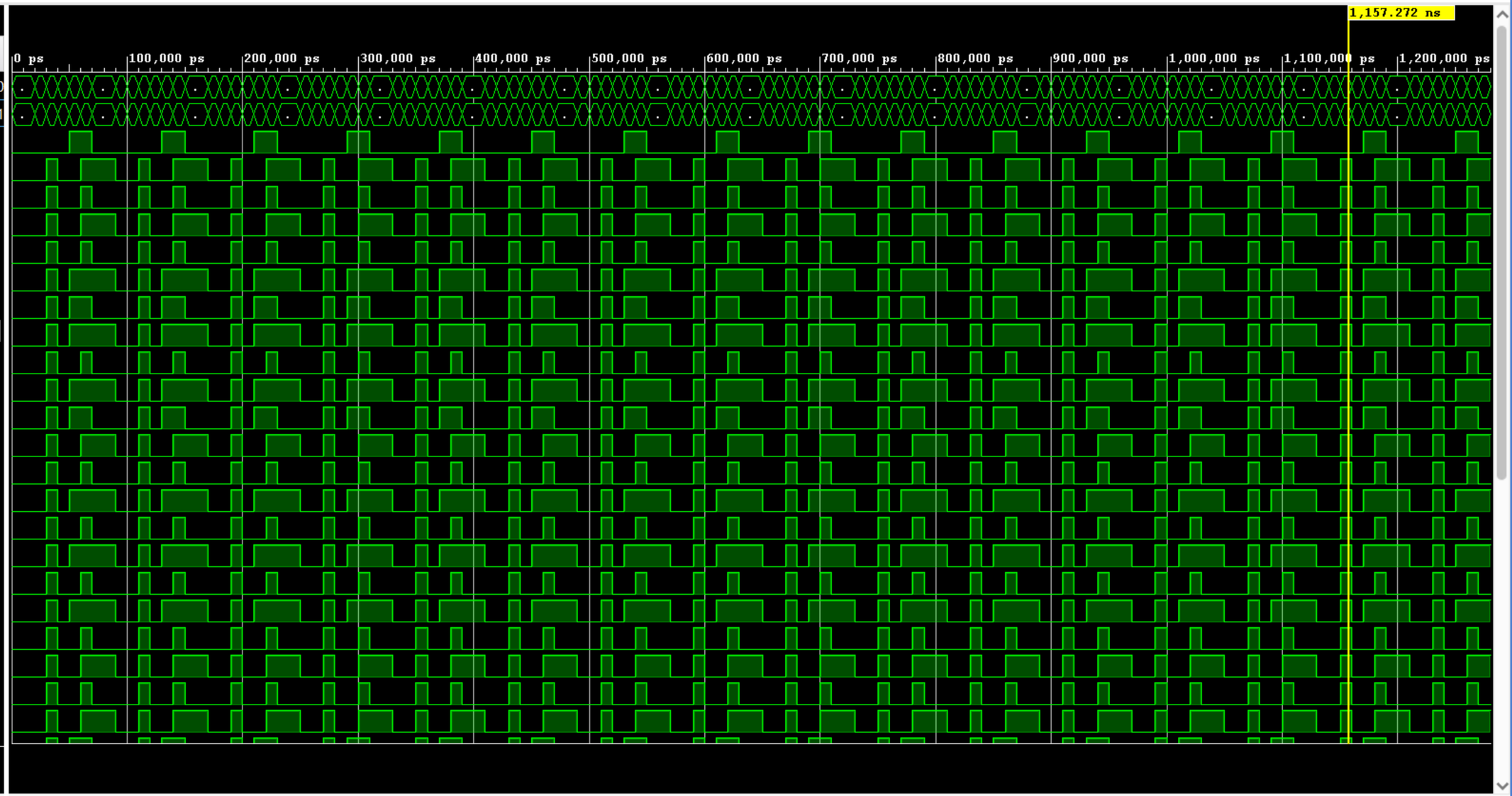
[31]	0
[30]	1
[29]	1
[28]	1
[27]	1
[26]	1
[25]	1
/ALU_32_BIT_tb/B_tb[24]	
[23]	1
[22]	1
[21]	1
[20]	1
[19]	1
[18]	1
[17]	1
[16]	1
[15]	1
[14]	1
[13]	1
[12]	1
[11]	1
[10]	1



Tcl Console | Messages | Log

Sim Time: 1280 ns

19°C Mostly sunny | Search | ENG IN | 15:51 31-01-2026