Pruebas de funcionamiento ALU:

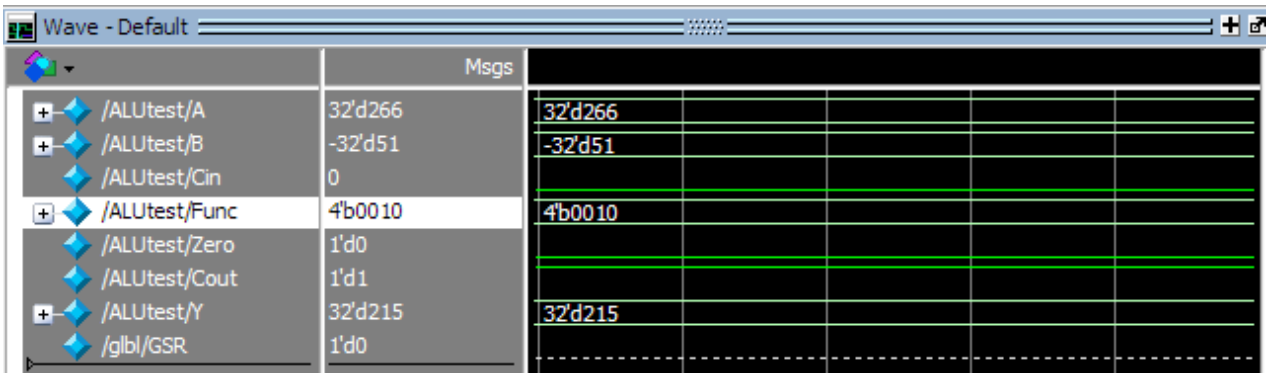
//Prueba ADD 266 + -51 = 215

A = 32'b00000000000000000000000100001010;

B = 32'b11111111111111111111111111001101;

Cin = 0;

Func = 4'b0010;



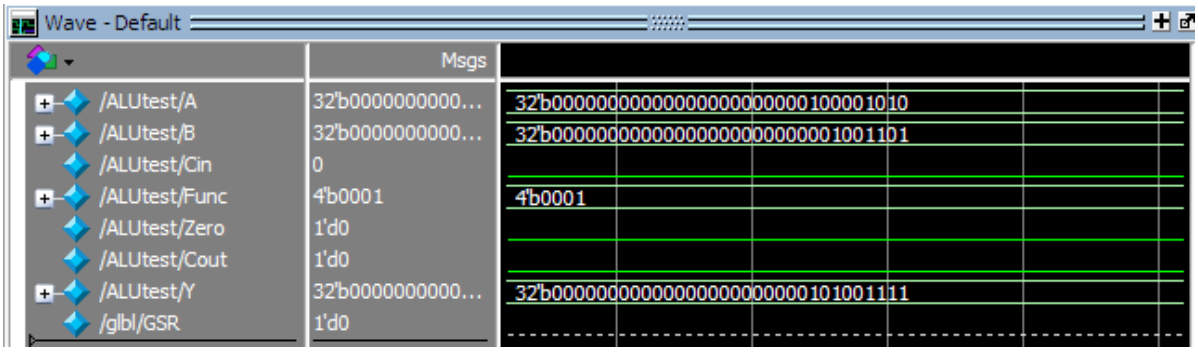
//Prueba OR 100001010 OR 001001101 = 101001111

A = 32'b00000000000000000000000100001010;

B = 32'b00000000000000000000000001001101;

Cin = 0;

Func = 4'b0001;



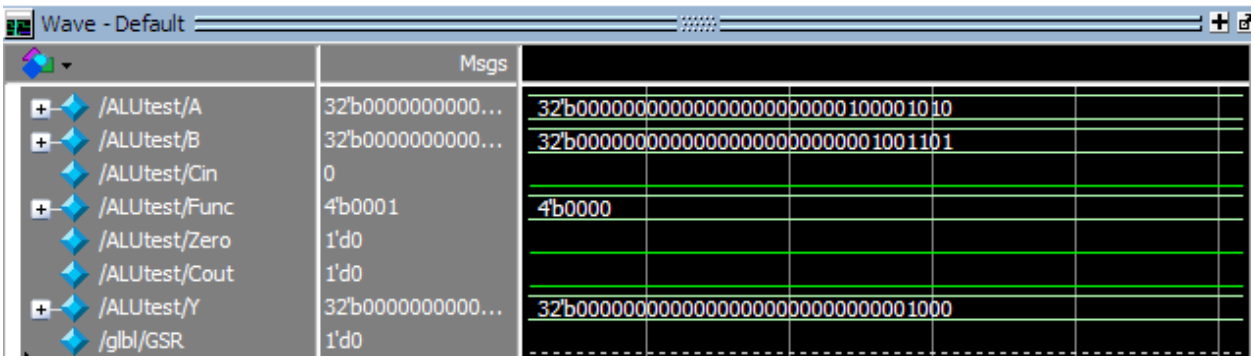
//Prueba AND 100001010 AND 001001101 = 000001000

A = 32'b00000000000000000000000100001010;

B = 32'b00000000000000000000000001001101;

Cin = 0;

Func = 4'b0000;



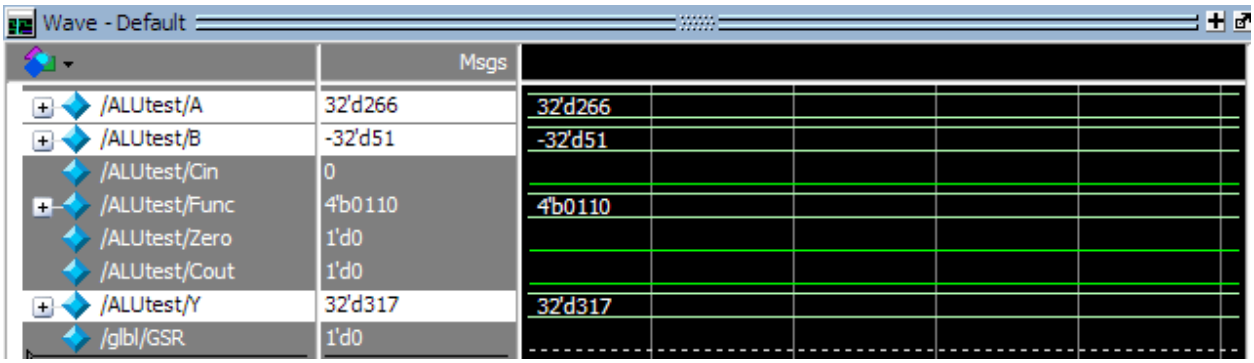
//Prueba Substract 266 - -51 = 317

A = 32'b00000000000000000000000100001010;

B = 32'b11111111111111111111111111001101;

Cin = 0;

Func = 4'b0110;



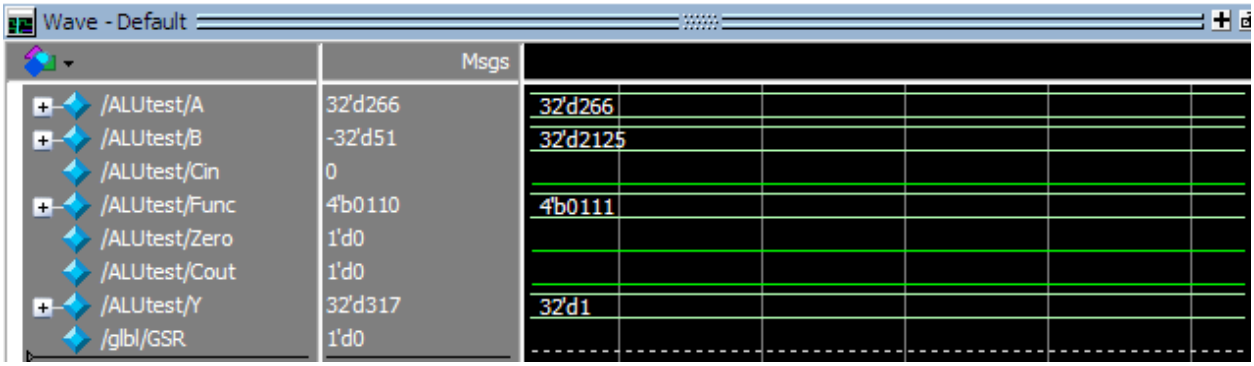
//Prueba Set Less Than 266 < 2125 == Si por lo tanto 1

A = 32'b00000000000000000000000100001010;

B = 32'b00000000000000000000100001001101;

Cin = 0;

Func = 4'b0111;



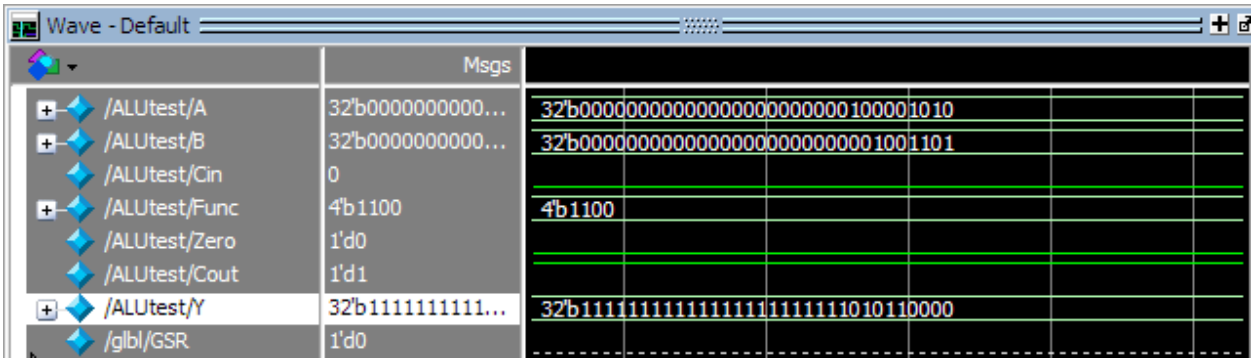
//Prueba NOR ...0100001010 NOR ...0001001101 = 11111111111111111111111010110000

A = 32'b00000000000000000000000100001010;

B = 32'b00000000000000000000000001001101;

Cin = 0;

Func = 4'b1100;



//Prueba Cero 77 – 77 = 0

A = 32'b00000000000000000000000001001101;

B = 32'b00000000000000000000000001001101;

Cin = 0;

Func = 4'b0110;