

## Pruebas de funcionamiento ALU:

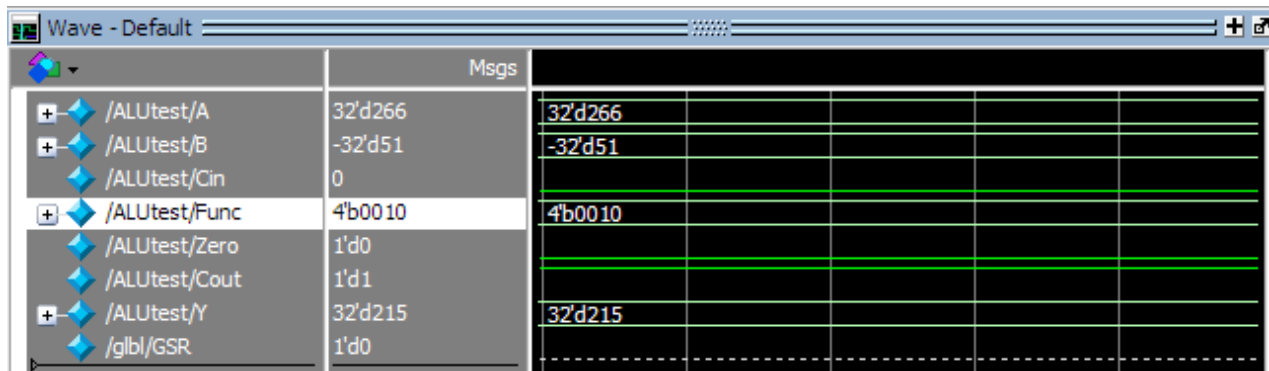
//Prueba ADD 266 + -51 = 215

A = 32'b000000000000000000000000100001010;

B = 32'b1111111111111111111111111001101;

Cin = 0;

Func = 4'b0010;



Signal	Value
/ALUtest/A	32'd266
/ALUtest/B	-32'd51
/ALUtest/Cin	0
/ALUtest/Func	4'b0010
/ALUtest/Zero	1'd0
/ALUtest/Cout	1'd1
/ALUtest/Y	32'd215
/glbl/GSR	1'd0

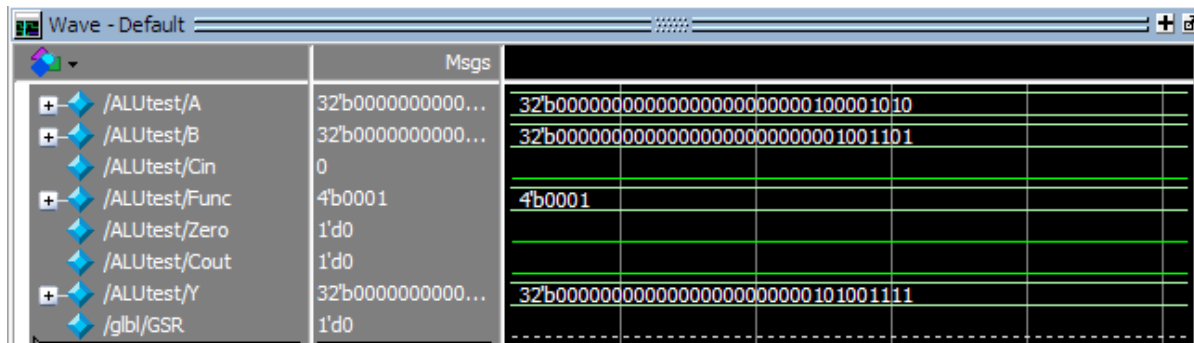
//Prueba OR 100001010 OR 001001101 = 101001111

A = 32'b000000000000000000000000100001010;

B = 32'b0000000000000000000000001001101;

Cin = 0;

Func = 4'b0001;



Signal	Value
/ALUtest/A	32'b000000000000000000000000100001010
/ALUtest/B	32'b0000000000000000000000001001101
/ALUtest/Cin	0
/ALUtest/Func	4'b0001
/ALUtest/Zero	1'd0
/ALUtest/Cout	1'd0
/ALUtest/Y	32'b000000000000000000000000101001111
/glbl/GSR	1'd0

```
Func = 4'b0000;
```

[illegible]

```
Func = 4'b0110;
```

Wave - Default		Msgs
+ [ALUtest/A]	32'd266	32'd266
+ [ALUtest/B]	-32'd51	-32'd51
[ALUtest/Cin]	0	
+ [ALUtest/Func]	4'b0110	4'b0110
[ALUtest/Zero]	1'd0	
[ALUtest/Cout]	1'd0	
+ [ALUtest/Y]	32'd317	32'd317
[glbl/GSR]	1'd0	

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

A = 32'b000000000000000000000000100001010;

B = 32'b000000000000000000000000100001001101;

Cin = 0;

Func = 4'b0111;

Wave - Default		Msgs				
+ /ALUtest/A	32'd266		32'd266			
+ /ALUtest/B	-32'd51		32'd2125			
/ALUtest/Cin	0					
+ /ALUtest/Func	4'b0110		4'b0111			
/ALUtest/Zero	1'd0					
/ALUtest/Cout	1'd0					
+ /ALUtest/Y	32'd317		32'd1			
/glbl/GSR	1'd0					

//Prueba NOR ...0100001010 NOR ...0001001101 = 111111111111111111111010110000

A = 32'b000000000000000000000000100001010;

B = 32'b0000000000000000000000001001101;

Cin = 0;

Func = 4'b1100;

Wave - Default		Msgs				
+ /ALUtest/A	32'b0000000000...		32'b0000000000000000000000100001010			
+ /ALUtest/B	32'b0000000000...		32'b000000000000000000000001001101			
/ALUtest/Cin	0					
+ /ALUtest/Func	4'b1100		4'b1100			
/ALUtest/Zero	1'd0					
/ALUtest/Cout	1'd1					
+ /ALUtest/Y	32'b1111111111...		32'b111111111111111111111010110000			
/glbl/GSR	1'd0					

```
//Prueba Cero 77 - 77 = 0
```

```
A = 32'b000000000000000000000000000000001001101;
```

```
B = 32'b000000000000000000000000000000001001101;
```

Cin = 0;

```
Func = 4'b0110;
```

Wave - Default		Msgs
+ [icon] /ALUtest/A	32'd77	32'd77
+ [icon] /ALUtest/B	32'd77	32'd77
[icon] /ALUtest/Cin	1'h0	
+ [icon] /ALUtest/Func	4'h6	4'h6
[icon] /ALUtest/Zero	1'h1	
[icon] /ALUtest/Cout	1'h1	
+ [icon] /ALUtest/Y	32'd0	32'd0
[icon] /glbl/GSR	1'h0	