	0 ns	200 ns	400 ns	600 ns	800 ns	1,000 ns
📷 operand_a[7:0]			00111111			
1 [7]						
1 [6]						
1 [5]						
U [4]						
L [7] L [6] L [5] L [4] L [3] L [2] L [1]						
L [2]						
1 [1]						
📷 operand_b[7:0]			01111111			
L [7] L [6] L [5] L [4] L [3] L [2] L [1]						
1 [6]						
1 [5]						
[4]						
[3]						
[2]						
ll [1]						
operation[3:0]			0000			
[3]						
1 [2] 1 [1]						
[1]						
[0]						
result[7:0]			10111110			
[7]						
[6]						
1 [5]						
[4]						
4 [3]						
4 [2]						
4 [1]						
1 [4] 1 [4] 1 [2] 1 [1] 1 [0]						
Щ carry_out						
\text extended_result[8:0]			010111110			

O ns	200 ns	400 ns	600 ns	800 ns	1,000 n
		10111110			

[8]

[7] [6]

16 [5] 16 [4] 16 [3] 16 [2]

[1] [1] [0]

ALU_Result[7:0]

| [7]
| [6]
| [5]
| [4]
| [3]
| [2]
| [1]
| [0]