

# Prac 5: Implementing an ALU

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	0
A[7:0]	10
B[7:0]	100000
clk	
ALU_Out[7:0]	100010
ALU_Sel[3:0]	0

Add function waveform (ADD 0000 Acc = A + B)

A[7:0]	10
B[7:0]	100000
clk	
ALU_Out[7:0]	1000101
ALU_Sel[3:0]	110

Multiply-Accumulate function waveform (MAC 0110 Acc = Acc + (A \* B))

	40
A[7:0]	10110001
B[7:0]	100000
clk	
ALU_Out[7:0]	11011000
ALU_Sel[3:0]	1000

ROR function waveform (ROR 1000 Acc = A rotated right by 1)

A[7:0]	10
B[7:0]	100000
clk	
ALU_Out[7:0]	11111111
ALU_Sel[3:0]	1111

Less than function waveform (LTH 1111 Acc = 0xFF if A)

GITHUB link <https://github.com/Jonathan5320/EEE3096S.git>