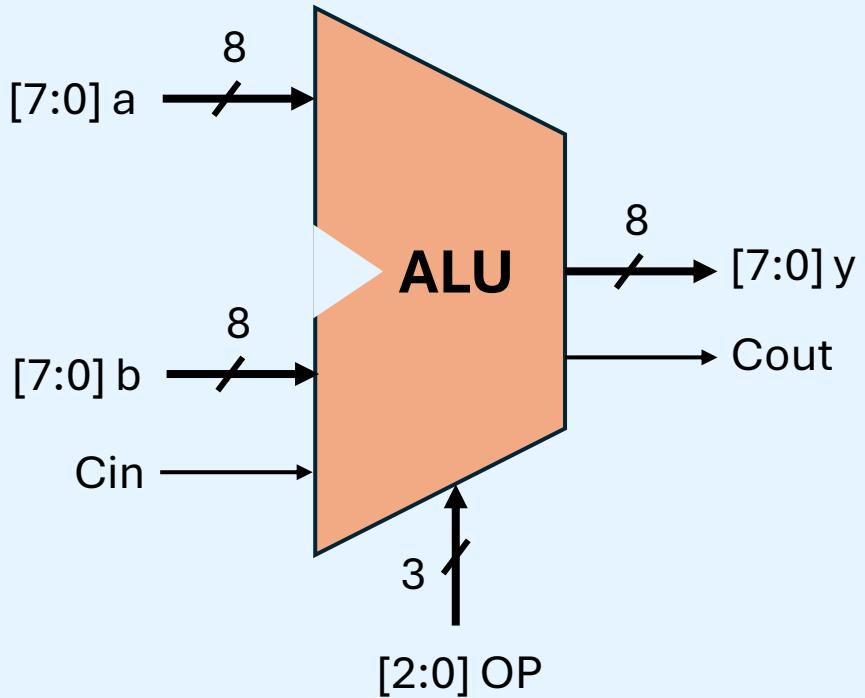


ALU



Operation	Code	Result	Explanation	Type
and	000	a and b	Bitwise and	Logic
or	001	a or b	Bitwise or	
comp	010	a'	Bitwise complement	
rrc	011	$a[0] \rightarrow \text{Cout}$ $\text{Cin} \rightarrow a[7]$ $a[n] \rightarrow a[n-1]$	Rotate right with carry	
rlc	100	$a[7] \rightarrow \text{Cout}$ $\text{Cin} \rightarrow a[0]$ $a[n] \rightarrow a[n+1]$	Rotate left with carry	
add	101	$a + b + \text{Cin}$	Addition with carry	Arithmetic
sub	110	$a - b - \text{Cin}$ (borrow)	Subtraction with borrow	
move	111	b	Data pass through	