

# Functional Unit

🕒 Created	@November 1, 2024 11:15 AM
🏷️ Tags	
🔄 Status	Not started

FS(4)	FS(3)	FS(2)	FS(1)	FS(0)	Micro-operation
0	0	0	0	0	$F=A$
0	0	0	0	1	$F=A+1$
0	0	0	1	0	$F=A+B$
0	0	0	1	1	$F=A+B+1$
0	0	1	0	0	$F=A+\text{NOT}(B)$
0	0	1	0	1	$F=A+\text{NOT}(B)+1$
0	0	1	1	0	$F=A-1$
0	0	1	1	1	$F=A$
0	1	0	0	0	$F=A \text{ AND } B$
0	1	0	1	0	$F=A \text{ OR } B$
0	1	1	0	0	$F=A \text{ XOR } B$
0	1	1	1	0	$F=\text{NOT}(A)$
1	0	0	0	0	$F=B$
1	0	1	0	0	$F=\text{sr}B$
1	1	0	0	0	$F=\text{sl}B$