

ULg01

Control Inputs						Output
F3	F2	F1	F0	C	M	
0	0	1	1	1	1	0
1	1	0	0	1	1	0xffffffff
1	1	1	1	1	1	A
1	0	1	0	1	1	B
1	1	1	1	1	0	A-1
0	0	0	0	0	0	A+1
1	0	0	1	1	0	A+B
0	1	1	0	0	0	A-B
1	0	1	1	1	1	A and B
1	1	1	0	1	1	A or B
0	1	1	0	1	1	A xor B
0	0	0	0	1	1	not A
1	1	0	0	1	0	A+A
0	1	1	0	1	0	A-B-1
1	0	0	1	x	1	not (A xor B)
0	1	0	0	x	1	not (A and B)

flags:
 E=1 <=> Alu out = 0xffffffff
 C : negated carry out
 N = most sign. Alu out: a31

