ALU TOP LEVEL

8 BIT RIPPLE
ADDER

8_B_Ripple_Adder

A0	INPUT		A_0	S_0		OUTPUT	S0
B0	INPUT		B_0	S_1		OUTPUT	S1
C_IN	INPUT		Ci	S_2		OUTPUT	S2
A1	INPUT		A_1	S_3		OUTPUT	S3
B1	INPUT		B_1	S_4		OUTPUT	S4
A2	INPUT		A_2	S_5		OUTPUT	S5
B2	INPUT		B_2	S_6		OUTPUT	S6
A3	INPUT		A_3	S_7		OUTPUT	S7
B3	INPUT		B_3	CO			
A4	INPUT		A_4				
B4	INPUT		B_4				
A5	INPUT		A_5				
B5	INPUT		B_5				
A6	INPUT		A_6				
B6	INPUT		B_6				
A7	INPUT		A_7				
B7	INPUT		B_7				

inst

8_B_Ripple_Adder

A8	INPUT		A_0	S_0		OUTPUT	S8
B8	INPUT		B_0	S_1		OUTPUT	S9
			Ci	S_2		OUTPUT	S10
A9	INPUT		A_1	S_3		OUTPUT	S11
B9	INPUT		B_1	S_4		OUTPUT	S12
A10	INPUT		A_2	S_5		OUTPUT	S13
B10	INPUT		B_2	S_6		OUTPUT	S14
A11	INPUT		A_3	S_7		OUTPUT	S15
B11	INPUT		B_3	CO		OUTPUT	CARRY_OUT
A12	INPUT		A_4				
B12	INPUT		B_4				
A13	INPUT		A_5				
B13	INPUT		B_5				
A14	INPUT		A_6				
B14	INPUT		B_6				
A15	INPUT		A_7				
B15	INPUT		B_7				

inst1

8 BIT RIPPLE
ADDER