			ALU
opCode(31-21)	cont	rols	controls
109 8765 4321	AAABCDE	G H	
100 0101 1000	0 00000	10	0010
110 0101 1000	0 00000	10	0110
100 0101 0000	0 00000	10	0000
101 0101 0000	0 00000	10	0001
111 1100 0010	0 01101	1 x	0010
111 1100 0000	0 0 x 0 1 1	0 1	0010
h			
101 1010 0xxx	0 1 x 0 0 0	0 1	0011
nch			
000 101x xxxx	1 0 x 0 0 x	0 x	XXXX
	109 8765 4321 100 0101 1000 110 0101 0000 101 0101 0	AA A B C D E 109 8765 4321 100 0101 1000 110 0101 1000 100 0101 0000 101 0101 0000 111 1100 0010 111 1100 0000 h 101 1010 0xxx nch	AA A B C D E G H 109 8765 4321 100 0101 1000 110 0101 1000 100 0101 0000 101 0101 0000 111 1100 0010 111 1100 0010 111 1100 0000 101 01 01 01 01 01 h 101 1010 0xxx nch

Controls

Unconditional Branch

Conditional Branch (cbz)

MemToReg MemRead

MemWrite

ALUSrc

ALUOp bit1, bit 0
RegWrite
Reg2Loc