

	SRL.NEEDED	SR2.NEEDED	DRMUX	ADDR1MUX	ADDR2MUX	LSHF1	ADDRESSMUX	SR2MUX	ALUK	ALU.RESULTMUX	BR.OP	UNCOND.OP	TRAP.OP	BR.STALL	DCACHE.EN	DCACHE.RW	DATA.SIZE	DR.VALUMUX	LD.REG	LD.CC	
000000 (0)	0	0	0	0	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	BR
000001 (1)	0	0	0	0	1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	
000010 (2)	0	0	0	0	1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	
000011 (3)	0	0	0	0	1	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	
000100 (4)	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	ADD
000101 (5)	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	
000110 (6)	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	
000111 (7)	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	
001000 (8)	1	0	0	1	0	1	0	1	0	0	0	0	0	0	1	0	0	0	1	1	LDB
001001 (9)	1	0	0	1	0	1	0	1	0	0	0	0	0	0	1	0	0	0	1	1	
001010 (10)	1	0	0	1	0	1	0	1	0	0	0	0	0	0	1	0	0	0	1	1	
001011 (11)	1	0	0	1	0	1	0	1	0	0	0	0	0	0	1	0	0	0	1	1	
001100 (12)	1	1	0	1	0	1	0	1	0	1	1	1	0	0	0	1	1	0	0	0	STB
001101 (13)	1	1	0	1	0	1	0	1	0	1	1	1	0	0	0	1	1	0	0	0	
001110 (14)	1	1	0	1	0	1	0	1	0	1	1	1	0	0	0	1	1	0	0	0	
001111 (15)	1	1	0	1	0	1	0	1	0	1	1	1	0	0	0	1	1	0	0	0	
010000 (16)	1	0	1	1	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	1	JSRR
010001 (17)	1	0	1	1	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	1	
010010 (18)	0	0	1	0	1	1	1	1	0	0	0	1	0	1	0	0	0	1	0	1	
010011 (19)	0	0	1	0	1	1	1	1	0	0	0	1	0	1	0	0	0	1	0	1	
010100 (20)	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	AND
010101 (21)	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1	1	1	
010110 (22)	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	
010111 (23)	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1	1	1	
011000 (24)	1	0	0	1	0	1	1	1	0	0	0	0	0	0	1	0	1	0	1	1	LDW
011001 (25)	1	0	0	1	0	1	1	1	0	0	0	0	0	0	1	0	1	0	1	1	
011010 (26)	1	0	0	1	0	1	1	1	0	0	0	0	0	0	1	0	1	0	1	1	
011011 (27)	1	0	0	1	0	1	1	1	0	0	0	0	0	0	1	0	1	0	1	1	
011100 (28)	1	1	0	1	0	1	1	1	0	1	1	1	0	0	0	1	1	1	0	0	STW
011101 (29)	1	1	0	1	0	1	1	1	0	1	1	1	0	0	0	1	1	1	0	0	
011110 (30)	1	1	0	1	0	1	1	1	0	1	1	1	0	0	0	1	1	1	0	0	
011111 (31)	1	1	0	1	0	1	1	1	0	1	1	1	0	0	0	1	1	1	0	0	
100000 (32)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	XOR
100001 (33)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100010 (34)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100011 (35)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100100 (36)	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	1	1	XOR
100101 (37)	1	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	1	1	1	
100110 (38)	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	1	1	
100111 (39)	1	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	1	1	1	
101000 (40)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	JMP
101001 (41)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
101010 (42)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
101011 (43)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
101100 (44)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
101101 (45)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
101110 (46)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
101111 (47)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
110000 (48)	1	0	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	
110001 (49)	1	0	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	
110010 (50)	1	0	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	
110011 (51)	1	0	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	

110100 (52)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
110101 (53)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
110110 (54)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
110111 (55)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
111000 (56)	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
111001 (57)	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
111010 (58)	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
111011 (59)	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
111100 (60)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	0	0
111101 (61)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	0	0
111110 (62)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	0	0
111111 (63)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	0	0

SHF

LEA

TRAP