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		PRESENT STATE	NEXT STATE										PCWrite
			opcode = 0000	opcode = 0001	opcode = 0010	opcode = 0011	opcode = 0100	opcode = 0101	opcode = 0110	opcode = 0111	opcode = 1000	opcode = 1001	
A	OpAddR	A	A	B	A	B	C	D	E	F	G	H	1
B	OpAddI	B	A	B	A	B	C	D	E	F	G	H	1
C	OpSubR	C	A	B	A	B	C	D	E	F	G	H	1
D	OpSubI	D	A	B	A	B	C	D	E	F	G	H	1
E	OpAndR	E	A	B	A	B	C	D	E	F	G	H	1
F	OpAndI	F	A	B	A	B	C	D	E	F	G	H	1
G	OpOrR	G	A	B	A	B	C	D	E	F	G	H	1
H	OpOrI	H	A	B	A	B	C	D	E	F	G	H	1

	PRESENT STATE	NEXT STATE										RegDst
		opcode = 0000	opcode = 0001	opcode = 0010	opcode = 0011	opcode = 0100	opcode = 0101	opcode = 0110	opcode = 0111	opcode = 1000	opcode = 1001	
	A	A	B	A	B	C	D	E	F	G	H	1
	B	A	B	A	B	C	D	E	F	G	H	0
	C	A	B	A	B	C	D	E	F	G	H	1
	D	A	B	A	B	C	D	E	F	G	H	0
	E	A	B	A	B	C	D	E	F	G	H	1
	F	A	B	A	B	C	D	E	F	G	H	0
	G	A	B	A	B	C	D	E	F	G	H	1
	H	A	B	A	B	C	D	E	F	G	H	0

	PRESENT STATE	NEXT STATE										ALUSrcB
		opcode = 0000	opcode = 0001	opcode = 0010	opcode = 0011	opcode = 0100	opcode = 0101	opcode = 0110	opcode = 0111	opcode = 1000	opcode = 1001	
	A	A	B	A	B	C	D	E	F	G	H	0
	B	A	B	A	B	C	D	E	F	G	H	1
	C	A	B	A	B	C	D	E	F	G	H	0
	D	A	B	A	B	C	D	E	F	G	H	1
	E	A	B	A	B	C	D	E	F	G	H	0
	F	A	B	A	B	C	D	E	F	G	H	1
	G	A	B	A	B	C	D	E	F	G	H	0
	H	A	B	A	B	C	D	E	F	G	H	1

	PRESENT STATE	NEXT STATE										ALUOp
		opcode = 0000	opcode = 0001	opcode = 0010	opcode = 0011	opcode = 0100	opcode = 0101	opcode = 0110	opcode = 0111	opcode = 1000	opcode = 1001	
	A	A	B	A	B	C	D	E	F	G	H	10
	B	A	B	A	B	C	D	E	F	G	H	10
	C	A	B	A	B	C	D	E	F	G	H	11
	D	A	B	A	B	C	D	E	F	G	H	11
	E	A	B	A	B	C	D	E	F	G	H	00
	F	A	B	A	B	C	D	E	F	G	H	00
	G	A	B	A	B	C	D	E	F	G	H	01

			H	A	B	A	B	C	D	E	F	G	H	01
			PRESENT STATE	NEXT STATE										RegWrite
				opcode = 0000	opcode = 0001	opcode = 0010	opcode = 0011	opcode = 0100	opcode = 0101	opcode = 0110	opcode = 0111	opcode = 1000	opcode = 1001	
			A	A	B	A	B	C	D	E	F	G	H	1
			B	A	B	A	B	C	D	E	F	G	H	1
			C	A	B	A	B	C	D	E	F	G	H	1
			D	A	B	A	B	C	D	E	F	G	H	1
			E	A	B	A	B	C	D	E	F	G	H	1
			F	A	B	A	B	C	D	E	F	G	H	1
			G	A	B	A	B	C	D	E	F	G	H	1
			H	A	B	A	B	C	D	E	F	G	H	1