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		HLT	MEM ADDRESS REG IN (MI)	RAM IN (RI)	RAM OUT (RO)	INSTRUCTION REG OUT (IO)	INSTRUCTION REG IN (II)	A REG IN (AI)	A REG IN (AO)	SUM OUT (SI)	SUBTRACT (SU)	B REG IN (BI)	OUTPUT REG IN (OI)	COUNT ENABLE (CE)	PRG COUNTER OUT (CO)	JUMP (J)
FETCH	x x x x	0 0 0	0 0 1	0 0	0 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 1	1 0	0 0
NOP	0 0 0 0	0 1 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	0 0 0 0	1 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
LOAD A	0 0 0 1	0 1 0	0 0 1	0 0	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	0 0 0 1	0 1 1	0 0 1	0 0	1 0	0 0	1 0	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	0 0 0 1	1 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
ADDITION	0 0 1 0	0 1 0	0 0 1	0 0	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	0 0 1 0	0 1 1	0 0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0
	0 0 1 0	1 0 0	0 0 0	0 0	0 0	0 0	0 0	1 0	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0
SUBSTRACTION	0 0 1 1	0 1 0	0 0 1	0 0	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	0 0 1 1	0 1 1	0 0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0
	0 0 1 1	1 0 0	0 0 0	0 0	0 0	0 0	0 0	1 0	1 0	1 0	1 0	0 0	0 0	0 0	0 0	0 0
STORE A	0 1 0 0	0 1 0	0 0 1	0 0	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	0 1 0 0	0 1 1	0 0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	0 1 0 0	1 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
LOAD IMMEDIATE	0 1 0 1	0 1 0	0 0 1	0 0	0 0	1 0	0 0	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	0 1 0 1	0 1 1	0 0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	0 1 0 1	1 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
JUMP	0 1 1 0	0 1 0	0 0 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 0
	0 1 1 0	0 1 1	0 0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	0 1 1 0	1 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
OUTPUT	1 1 1 0	0 1 0	0 0 1	0 0	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0
	1 1 1 0	0 1 1	0 0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	1 1 1 0	1 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
HALT SYSTEM	1 1 1 1	0 1 0	1 0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	1 1 1 1	0 1 1	0 0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	1 1 1 1	1 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0

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