

Boolean Signals							
LD.MAR	GateMARMUX						
LD.MDR	GateMDR						
LD.REG	GatePC						
LD.CC	GateALU						
LD.PC	LD.IR						
MEM.EN							

Signal Name	Possible Values
ALUK	ADD, AND, NOT, PASSA
ADDR1MUX	PC, BaseR
ADDR2MUX	ZERO, offset6, PCoffset9, PCoffset11
PCMUX	PC+1, ADDER, BUS
MARMUX	ZEXT, ADDER
SR2MUX	SR2, SEXT
R.W	R, W

Mnemonic	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
*ADD	0	0	0	1	DR				SR1		0	0	0		SR2	
*ADD	0	0	0	1	DR				SR1 1 imm5							
*AND	0	1	0	1	DR				SR1			0	0	SR2		
*AND	0	1	0	1	DR				SR1	R1 1 imm5						
BR	0	0	0	0	n	Z	р	PCoffset9								
JMP	1	1	0	0	0	0	0	BaseR			0	0	0	0	0	0
JSR	0	1	0	0	1		PCoffset11									
JSRR	0	1	0	0	0	0	0	BaseR			0	0	0	0	0	0
*LD	0	0	1	0	DR					PCoffset9						
*LDI	1	0	1	0	DR				PCoffset9							
*LDR	0	1	1	0	DR			E	BaseF	aseR offset6						
LEA	1	1	1	0	DR						PCoffset9					
*NOT	1	0	0	1		DR			SR		1	1	1	1	1	1
reserved	1	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-
RTI	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ST	0	0	1	1	SR				PCoffset9							
STI	1	0	1	1	SR			PCoffset9								
STR	0	1	1	1	SR			BaseR offset6					-			
TRAP	1	1	1	1	0	0 0 0 trapvect8										

^{*} modifies condition codes NZP