

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 (0), W (1)

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 1			imm5					
BR	0	0	0	0	n	Z	z p PCoffset9					500 00				
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				PC	Coffset9					
*LDI	1	0	1	0	DR				PCoffset9							
*LDR	0	1	1	0	DR			E	BaseR offset6							
LEA	1	1	1	0	DR				PCoffset9							
*NOT	1	0	0	1		DR	OR 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		E	BaseR offset6			-					
TRAP	1	1	1	1	0	0 0 0				trapvect8						

^{*} modifies condition codes NZP

Assembler Name	Trap Vector
GETC	x20
OUT or PUTC	x21
PUTS	x22
IN	x23
HALT	x25

Character	ASCII Code
NUL	x00
А	x41
В	x42
С	x43
D	x44

Device Register	Addr		
Keyboard Status Register	xFE00		
Keyboard Data Register	xFE02		
Display Status Register	xFE04		
Display Data Register	xFE06		