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				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	р	p 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	BaseR 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

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		