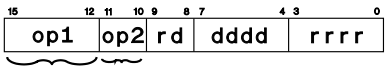
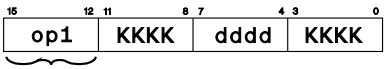
AVR Instruction Subset

ALU Instructions



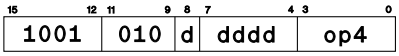
op1	op2	
0000	11	ADD
	00	NOP
0001	01	CP
	11	ADC
0010	00	AND
	01	EOR (CLR)
	10	OR
	11	MOV

Immediate Instructions



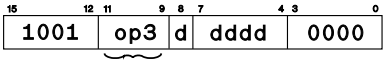
op1	
0011	CPI
0110	ORI
0111	ANDI
1110	LDI

Unary Logical Instructions



op4	
0000	COM
0001	NEG
0101	ASR
0110	LSR

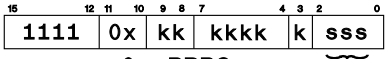
Load/Store Instructions



op3	
000	LDS
001	STS

Second word:

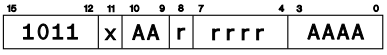
Branch Instructions



0x	
0	BRBS
1	BRBC

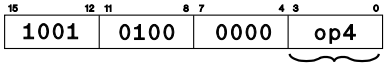
sss: cc

Input/Output Instructions



x	
0	IN
1	OUT

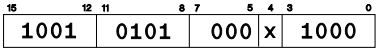
Call/Jump Instructions



op4	
1110	CALL
1100	JMP

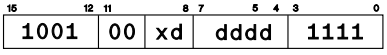
Second word:

Return Instructions



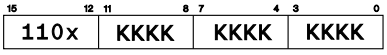
x	
0	RET
1	RETI

Stack Instructions



xd	
0	POP
1	PUSH

Relative Jump Instructions



110x	
0	RJMP
1	RCALL