

OLULISEMAD MIKROKONTROLLI RI ATmega88 KÄSID

| Mnemokood | Operandid | Kirjeldus | Tegevus | Lipud | Taktide arv |
|-----------|-----------|--|--|-----------|-------------|
| ADD | Rd, Rr | Add two Registers Liida kaks registrit | $Rd < Rd + Rr$ | Z,C,N,V,H | 1 |
| ADC | Rd, Rr | Add with Carry two Registers Liida kaks registrit arvestades ülekannet | $Rd < Rd + Rr + C$ | Z,C,N,V,H | 1 |
| SUB | Rd, Rr | Subtract two Registers Lahuta kaks registrit | $Rd < Rd - Rr$ | Z,C,N,V,H | 1 |
| SUBI | Rd, K | Subtract Constant from Register Lahuta konstant registrist | $Rd < Rd - K$ | Z,C,N,V,H | 1 |
| SBC | Rd, Rr | Subtract with Carry two Registers Lahuta kaks registrit arvestades ülekannet | $Rd < Rd - Rr - C$ | Z,C,N,V,H | 1 |
| SBCI | Rd, K | Subtract with Carry Constant from Reg. Lahuta konstant registris ja arvesta ülekannet | $Rd < Rd - K - C$ | Z,C,N,V,H | 1 |
| AND | Rd, Rr | Logical AND Registers Loogiline JA registrite vahel | $Rd < Rd \cdot Rr$ | Z,N,V | 1 |
| ANDI | Rd, K | Logical AND Register and Constant Loogiline JA registry ja konstandi vahel | $Rd < Rd \cdot K$ | Z,N,V | 1 |
| INC | Rd | Increment Suurenda | $Rd < Rd + 1$ | Z,N,V | 1 |
| DEC | Rd | Decrement Vähenda | $Rd < Rd - 1$ | Z,N,V | 1 |
| SEC | | Set Carry Pane ülekande lipp üheks | $C < 1$ | C | 1 |
| CLC | | Clear Carry Pane ülekande lipp nulliks | $C < 0$ | C | 1 |
| TST | Rd | Test for Zero or Minus Kontrolli nulli või miinust | $Rd < Rd \cdot Rd$ | Z,N,V | 1 |
| SBI | P,b | Set Bit in I/O Register Pane bitt I/O registris üheks | $I/O(P,b) < 1$ | None | 2 |
| CBI | P,b | Clear Bit in I/O Register Pane bitt I/O registris nulliks | $I/O(P,b) < 0$ | None | 2 |
| LSL | Rd | Logical Shift Left Loogiline nihutamine vasakule | $Rd(n+1) < Rd(n), Rd(0) < 0$ | Z,C,N,V | 1 |
| ROL | Rd | Rotate Left Through Carry Ringnihe vasakule läbi ülekande | $Rd(0) < C, Rd(n+1) < Rd(n), C < Rd(7)$ | Z,C,N,V | 1 |
| ROR | Rd | Rotate Right Through Carry Ringnihe paremale läbi ülekande | $Rd(7) < C, Rd(n) < Rd(n+1), C < Rd(0)$ | Z,C,N,V | 1 |
| MOV | Rd, Rr | Move Between Registers Liiguta ühest registrist teise | Rd, Rr | None | 1 |
| MOVW | Rd, Rr | Copy Register Word Liiguta 16 bitiline sõna ühest registrist teise | $Rd+1:Rd < Rr+1:Rr$ | None | 1 |
| LDI | Rd, K | Load Immediate Lae konstant otse registrisse | $Rd < K$ | None | 1 |
| IN | Rd, P | In Port Loe sisendportist | Rd, P | None | 1 |
| OUT | P, Rr | Out Port Kirjuta väljundporti | P, Rr | None | 1 |
| RJMP | k | Relative Jump Suhteline hüppamine | $PC < PC + k + 1$ | None | 2 |
| RCALL | k | Relative Subroutine Call Suhteline alamprogrammi hüppamine | $PC < PC + k + 1$ | None | 3 |
| RET | | Subroutine Return Alamprogrammist tagasi pöördumine | $PC < STACK$ | None | 4 |
| BRBS | s, k | Branch if Status Flag Set Hüppa kui statuslipp on "1" | if (SREG(s) = 1) then $PC < PC + k + 1$ | None | 1/2 |
| BRBC | s, k | Branch if Status Flag Cleared Hüppa kui statuslipp on "0" | if (SREG(s) = 0) then $PC < PC + k + 1$ | None | 1/2 |