ATmega48P/88P/168P/328P

When the BOOTRST Fuse is unprogrammed, the Boot section size set to 2K bytes and the IVSEL bit in the MCUCR Register is set before any interrupts are enabled, the most typical and general program setup for the Reset and Interrupt Vector Addresses in ATmega168P is:

```
Address Labels Code
                                          Comments
0x0000
         RESET: ldi
                         r16, high (RAMEND); Main program start
0x0001
                 out.
                         SPH,r16
                                          ; Set Stack Pointer to top of RAM
0 \times 0002
                 ldi
                        r16, low(RAMEND)
0 \times 0003
                         SPL, r16
                 out.
0 \times 0004
                                          ; Enable interrupts
                 sei
0 \times 0005
                 <instr>
                           XXX
.org 0x1C02
0x1C02
                         EXT_INT0
                                          ; IRQ0 Handler
                 dmĹ
0x1C04
                         EXT_INT1
                                          ; IRO1 Handler
                 jmp
0x1C32
                 jmp
                         SPM_RDY
                                          ; Store Program Memory Ready Handler
```

When the BOOTRST Fuse is programmed and the Boot section size set to 2K bytes, the most typical and general program setup for the Reset and Interrupt Vector Addresses in ATmega168P is:

```
Address Labels Code
                                   Comments
.org 0x0002
0x0002
                       EXT_INT0
                                        ; IRQ0 Handler
0 \times 0004
                qmr
                       EXT INT1
                                        ; IRO1 Handler
0 \times 0032
                                        ; Store Program Memory Ready Handler
                qmj
                       SPM_RDY
.org 0x1C00
0x1C00 RESET: ldi
                       r16, high (RAMEND); Main program start
0x1C01
                out
                       SPH,r16
                                        ; Set Stack Pointer to top of RAM
0x1C02
                ldi
                       r16, low(RAMEND)
0x1C03
                       SPL, r16
                011t
0x1C04
                                        ; Enable interrupts
                sei
0x1C05
                <instr> xxx
```

When the BOOTRST Fuse is programmed, the Boot section size set to 2K bytes and the IVSEL bit in the MCUCR Register is set before any interrupts are enabled, the most typical and general program setup for the Reset and Interrupt Vector Addresses in ATmega168P is:

