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 ATmega88P is:

```
Address  Labels Code                 Comments
0x000    RESET: ldi    r16,high(RAMEND); Main program start
0x001           out    SPH,r16        ; Set Stack Pointer to top of RAM
0x002           ldi    r16,low(RAMEND)
0x003           out    SPL,r16
0x004           sei                   ; Enable interrupts
0x005           <instr>  xxx
;
.org 0xC01
0x0C01          rjmp   EXT_INT0       ; IRQ0 Handler
0x0C02          rjmp   EXT_INT1       ; IRQ1 Handler
...             ...    ...            ;
0x0C19          rjmp   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 ATmega88P is:

```
Address  Labels Code            Comments
.org 0x001
0x001           rjmp   EXT_INT0       ; IRQ0 Handler
0x002           rjmp   EXT_INT1       ; IRQ1 Handler
...             ...    ...            ;
0x019           rjmp   SPM_RDY        ; Store Program Memory Ready Handler
;
.org 0xC00
0xC00    RESET: ldi    r16,high(RAMEND); Main program start
0xC01           out    SPH,r16        ; Set Stack Pointer to top of RAM
0xC02           ldi    r16,low(RAMEND)
0xC03           out    SPL,r16
0xC04           sei                   ; Enable interrupts
0xC05           <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 ATmega88P is:

```
Address  Labels Code                 Comments
;
.org 0xC00
0xC00           rjmp   RESET          ; Reset handler
0xC01           rjmp   EXT_INT0       ; IRQ0 Handler
0xC02           rjmp   EXT_INT1       ; IRQ1 Handler
...             ...    ...            ;
0xC19           rjmp   SPM_RDY        ; Store Program Memory Ready Handler
;
0xC1A    RESET: ldi    r16,high(RAMEND); Main program start
```