

9.2 Interrupt Vectors in ATmega88P

Table 9-2. Reset and Interrupt Vectors in ATmega88P

Vector No.	Program Address ⁽²⁾	Source	Interrupt Definition
1	0x000 ⁽¹⁾	RESET	External Pin, Power-on Reset, Brown-out Reset and Watchdog System Reset
2	0x001	INT0	External Interrupt Request 0
3	0x002	INT1	External Interrupt Request 1
4	0x003	PCINT0	Pin Change Interrupt Request 0
5	0x004	PCINT1	Pin Change Interrupt Request 1
6	0x005	PCINT2	Pin Change Interrupt Request 2
7	0x006	WDT	Watchdog Time-out Interrupt
8	0x007	TIMER2 COMPA	Timer/Counter2 Compare Match A
9	0x008	TIMER2 COMPB	Timer/Counter2 Compare Match B
10	0x009	TIMER2 OVF	Timer/Counter2 Overflow
11	0x00A	TIMER1 CAPT	Timer/Counter1 Capture Event
12	0x00B	TIMER1 COMPA	Timer/Counter1 Compare Match A
13	0x00C	TIMER1 COMPB	Timer/Counter1 Compare Match B
14	0x00D	TIMER1 OVF	Timer/Counter1 Overflow
15	0x00E	TIMER0 COMPA	Timer/Counter0 Compare Match A
16	0x00F	TIMER0 COMPB	Timer/Counter0 Compare Match B
17	0x010	TIMER0 OVF	Timer/Counter0 Overflow
18	0x011	SPI, STC	SPI Serial Transfer Complete
19	0x012	USART, RX	USART Rx Complete
20	0x013	USART, UDRE	USART, Data Register Empty
21	0x014	USART, TX	USART, Tx Complete
22	0x015	ADC	ADC Conversion Complete
23	0x016	EE READY	EEPROM Ready
24	0x017	ANALOG COMP	Analog Comparator
25	0x018	TWI	2-wire Serial Interface
26	0x019	SPM READY	Store Program Memory Ready

- Notes:
1. When the BOOTRST Fuse is programmed, the device will jump to the Boot Loader address at reset, see "[Boot Loader Support – Read-While-Write Self-Programming, ATmega88P, ATmega168P and ATmega328P](#)" on page 277.
 2. When the IVSEL bit in MCUCR is set, Interrupt Vectors will be moved to the start of the Boot Flash Section. The address of each Interrupt Vector will then be the address in this table added to the start address of the Boot Flash Section.

[Table 9-3 on page 60](#) shows reset and Interrupt Vectors placement for the various combinations of BOOTRST and IVSEL settings. If the program never enables an interrupt source, the Interrupt Vectors are not used, and regular program code can be placed at these locations. This is also the case if the Reset Vector is in the Application section while the Interrupt Vectors are in the Boot section or vice versa.