











INT4-7 - External Interrupts



EICF	RB 7	6	5	4	3	2	1	0	
	ISC71	ISC70	ISC61	ISC60	ISC51	ISC50	ISC41	ISC40	1
	R/W								
	0	0	0	0	0	0	0	0	

ISC11-ISC10 Interrupt Sense Control 1

00 ... low level 10 ... falling edge 01 ... any change 11 ... rising edge

Level event

asynchronous regardless on the clock

o can wake up also from other than just Idle sleep mode level detected at the end of instruction execution

Edge/toggle event

depends on the clock, pulse must be longer than 1 clock

Multiplex PE4-PE7

External Interrupt Mask Register



ı	EIMSK	7	6	5	4	3	2	1	0
ı		INT7	INT6	INT5	INT4	INT3	INT2	INT1	INT0
ı	_	R/W							
ı		0	0	0	0	0	0	0	0

INT0-7 External Interrupt Request Enable

0 ... disabled 1 ... enabled

- If the conditions are met, the interrupt is called even when the pin is set to output
 - ⇒ may be used as software interrupt

External Interrupt Flag Register



EIFR	7	6	5	4	3	2	1	0
	INTF7	INTF6	INTF5	INTF4	INTF3	INTF2	INTF1	INTF0
	R/W							
	0	0	0	0	0	0	0	0

INT0-7 External Interrupt Flag

0 ... clear 1 ... interrupt triggered

set when edge/logic change causes INT0-7 jump on the specified location zeroed after the routine is finished (or manually)

Level interrupt ⇒ always clear