

Lab 7

- 1- Write a C program to generate a 1000 Hz square wave on PORTB.5 with 50% Duty cycle while at the same time transfer data from PORTC to PORTD, Using Interrupt (don't Use Polling).

Interrupt	Vector Name
External Interrupt Request 0	INT0_vect
External Interrupt Request 1	INT1_vect
Pin Change Interrupt Request 0	PCINT0_vect
Pin Change Interrupt Request 1	PCINT1_vect
Pin Change Interrupt Request 2	PCINT2_vect
Watchdog Time-out Interrupt	WDT_vect
Timer/Counter2 Compare Match A	TIMER2_COMPA_vect
Timer/Counter2 Compare Match B	TIMER2_COMPB_vect
Timer/Counter2 Overflow	TIMER2_OVF_vect
Timer/Counter1 Capture Event	TIMER1_CAPT_vect
Timer/Counter1 Compare Match A	TIMER1_COMPA_vect
Timer/Counter1 Compare Match B	TIMER1_COMPB_vect
Timer/Counter1 Overflow	TIMER1_OVF_vect
Timer/Counter0 Compare Match A	TIMER0_COMPA_vect
Timer/Counter0 Compare Match B	TIMER0_COMPB_vect
Timer/Counter0 Overflow	TIMER0_OVF_vect
SPI Serial Transfer Complete	SPI_STC_vect
USART Rx Complete	USART_RX_vect
USART Data Register Empty	USART_UDRE_vect
USART Tx Complete	USART_TX_vect

