Interrupt Information 8515

```
/* interrupt is enabled at initialization these go in your port.h file
/* sei - enables interrupts */
#define sei() __asm__ _volatile__ ("sei" ::)
/* cli - disables interrupts */
#define cli() __asm__ _volatile__ ("cli" ::)
/* vectors in AVR are hardcoded to a function by name */
extern void __vector_7 (void) __attribute__ ((interrupt));
/* interrupt is disabled at initialization */
extern void __vector_9 (void) __attribute__ ((signal));
void timer_init(void)
      /* Program the timer with the value you want which is (256-the
         number of counts) into TCNT0. */
      writereg(TCCR0, TC0_CK_1024);
      writereg(TCNT0, 256-LED_DELAY);
      writereg(TIMSK, TOIE0); /* Enable Overflow Interrupt for
                                Counter 0 */
      sei();/* Enable Global Interrupts */
      /* Poll the TIFR for an overflow in TOVO. That means the counter
         has expired. Or get interrupted */
      /* Go back to step one. - happens in interrupt */
}
/* in you port.c code */
void __vector_7 (void) /* timer 0 overflow */
      timer_interupt();/* don't put you code directly in here put it
                          in a function which you can make portable */
```

Interrupt Information ATMEGA2560

```
/* interrupt is enabled at initialization these go in your port.h file
/* sei - enables interrupts */
#define sei() __asm__ _volatile__ ("sei" ::)
/* cli - disables interrupts */
#define cli() __asm__ _volatile__ ("cli" ::)
/* 24 TIMERO OVF Timer/CounterO Overflow datasheet */
/* base 0 instead of base 1 */
/* vectors in AVR are hardcoded to a function by name */
extern void __vector_23 (void) __attribute__ ((interrupt));
/* interrupt is disabled at initialization */
extern void __vector_25 (void) __attribute__ ((signal));
void timer_init(void)
      /* Program the timer with the value you want which is (256-the
         number of counts) into TCNT0. */
      writereg(TCCR0B, TC0_CK_1024);
      writereg(TCNT0, 256-LED_DELAY);
      \textbf{writereg}(\texttt{TIMSK0}\,,\,\,\texttt{TOIE0})\,;\,\,\,/^{\star}\,\,\,\textit{Enable Overflow Interrupt for}
                                  Counter 0 */
      sei();/* Enable Global Interrupts */
      /* Poll the TIFR for an overflow in TOVO. That means the counter
         has expired. Or get interrupted */
      /* Go back to step one. - happens in interrupt */
}
/* in you port.c code */
void __vector_23 (void)
                               /* timer 0 overflow */
      timer_interupt(); /* don't put you code directly in here put it
                            in a function which you can make portable */
```