

Some differences between CodeVision and AVR-GCC:

Header include
Eeprom variable
. bit access
ISR definition
Prototype for main()
Inline asm for SEI

CodeVision syntax:

```
#include <mega16.h>
```

```
interrupt [TIM1_COMPA] void timer1_compa(void){  
    PORTB.3 = !PORTB.3;  
}
```

```
eeprom char tim_rate;
```

```
void main(void) {  
    DDRB = 0xFF;  
  
    TIMSK = 0x10;  
    TCCR1A = 0x40;  
    TCCR1B = 1;  
    OCR1A = tim_rate;  
    #asm  
    sei  
#endasm  
    while (1){  
    }  
}
```

AVR-GCC syntax:

```
#include <avr/io.h>  
#include <avr/interrupt.h>  
#include <avr/eeprom.h>
```

```
ISR(TIM1_COMPA_vect) {  
    PORTB ^= (1<<PB3);  
}
```

```
EEMEM char tim_rate;
```

```
int main(void) {  
    DDRB = 0xFF;  
  
    TIMSK = 0x10;  
    TCCR1A = 0x40;  
    TCCR1B = 1;  
    OCR1A = eeprom_read_byte(&tim_rate);  
  
    sei();  
  
    while (1){  
    }  
}
```