The following code example shows one assembly and one C function for changing the time-out value of the Watchdog Timer.

Assembly Code Example[1]

```
WDT_Prescaler_Change:
  ; Turn off global interrupt
  cli
  ; Reset Watchdog Timer
  wdr
  ; Start timed sequence
  lds r16, WDTCSR
  ori   r16, (1<<WDCE) | (1<<WDE)
  sts WDTCSR, r16
  ; --  Got four cycles to set the new values from here -
  ; Set new prescaler(time-out) value = 64K cycles (~0.5 s)
  ldi   r16, (1<<WDE) | (1<<WDP2) | (1<<WDP0)
  sts WDTCSR, r16
  ; --  Finished setting new values, used 2 cycles -
  ; Turn on global interrupt
  sei
  ret
```

C Code Example[1]

```
void WDT_Prescaler_Change(void)
{
  __disable_interrupt();
  __watchdog_reset();
  /* Start timed  equence */
  WDTCSR |= (1<<WDCE) | (1<<WDE);
  /* Set new prescaler(time-out) value = 64K cycles (~0.5 s) */
  WDTCSR  = (1<<WDE) | (1<<WDP2) | (1<<WDP0);
  __enable_interrupt();
}
```

Note: 1. See "Code Examples" on page 7.

Note: The Watchdog Timer should be reset before any change of the WDP bits, since a change in the WDP bits can result in a time-out when switching to a shorter time-out period.