下面的代码描述如何改变看门狗定时器的超时值。

汇编代码
WDT_TOV_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 for cycles to set the new value from here --
; Set new time-out value = 64k cycles
LDI r16, (1 << WDE) | (1 << WDP2) | (1 << WDP0)
STS WDTCSR, r16
; -- Finished setting new value, used 2 cycles -
; Turn on global interrupt
SEI
RET
C 语言代码
void WDT_TOV_Change(void)
{
__disable_interrupt();
__watchdog_reset();
/ Start timed sequence */*
WDTCSR |= (1 << WDCE) | (1 << WDE);
/ Set new time-out value = 64K cycles */*
WDTCSR |= (1 << WDE) | (1 << WDP2) | (1 << WDP0);
__enable_interrupt();
}

【使用说明】

在改变 WDP 配置位之前，建议复位看门狗定时器。因为更改 WDP 位到比较小的超时周期很可能会导致看门狗超时复位。