Milestone 1: Answers to Lab Guide Questions

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## *What does pwmled2 set the PWM period to?*

The pwmled2.c file sets the PWM period to 3000 milliseconds, or 3 seconds.

## *Which PWM\_xxx() function sets the PWM period?*

In the file, I do not see a function with the template of “PWM\_xxx()” that sets the period, but instead a line of code that sets the PWM period for the project with “params.periodValue” that sets the value to a variable labeled “pwmPeriod”, which is the 3000 milliseconds aforementioned.

## *Which PWM\_xxx() function sets the PWM duty cycle?*

The function *PWM\_setDuty()* sets the PWM duty cycle.

## *What is the purpose of the while(1) loop in pwmled2?*

The first two *while(1)* loops keep the system looping until CONFIG\_PWM\_0 opens (if pwm1 or pwm2 are null). The main *while(1)* loop increments the PWM duty so that the user can endlessly see the results of the code — in other words, the system endlessly runs on its own.

## *What is the purpose of usleep() in the while(1) loop?*

The *usleep()* function — utilized in my code as *sleep()* — suspends thread execution for the number of microseconds — or seconds — predescribed. For example, usleep(3000) will suspend subsequent execution for 3000 milliseconds, or 3 seconds.