CS-350 Emerging Sys Arch & Tech – Milestone One

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Milestone One Questions

What does pwmled2 set the PWM period to?

In pwmled2 the PWM period is set to 3000 microseconds using the variable pwmPeriod.

Which PWM_xxx() function sets the PWM period?

The function PWM_Params_init() sets the PWM period. The function is passed the parameters. The parameters sets the period with params.periodValue = pwmPeriod.

Which PWM_xxx() function sets the PWM duty cycle?

The function PWM_setDuty() sets the PWM duty cycle. The function is passed the PWM to modify and the value to change the PWM duty cycle to.

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

The purpose of the while(1) loop is to have the code within the loop run continuously in an infinite loop.

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

The purpose of the usleep() function within the while(1) loop is to pause the execution for a specified amount of time before the loop starts again. In this case the time variable was passed to the function, which had been set at 1000000 microseconds, or 1 second.