

**From [1] on previous page, explains how the frequency for a board is determined, which is necessary in PWM.**

Timothy Hebert 4/18/2019 ~7:00 PM

<https://stackoverflow.com/questions/13853109/determine-board-type-of-arduino>

The -D 's are how the Arduino environment passes defines to the preprocessor. You see that only the CPU speed and arduino version are passed in this way. (verbose mode)

List of all Arduinos, official and unofficial:

<https://en.wikipedia.org/wiki/List_of_Arduino_boards_and_compatible_systems>

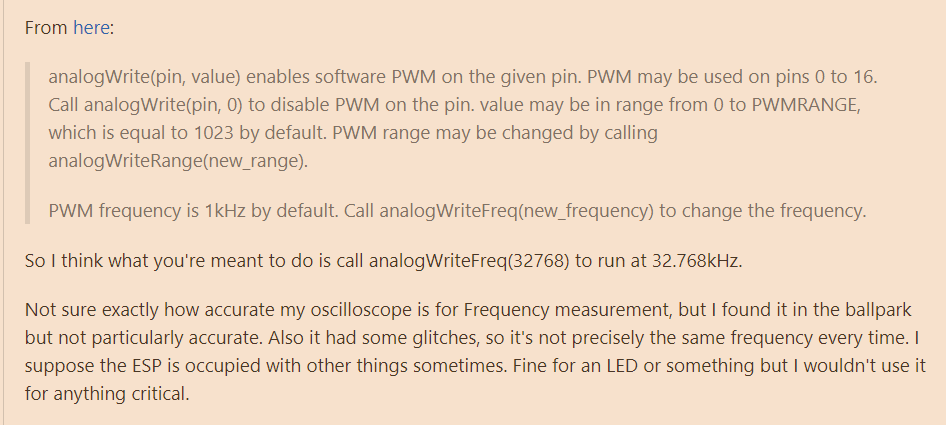
Jacob Smith 4/19/2019 1:00 AM: With Tim’s research, we can elegantly write board-independent code.

Jacob Smith 4/29/19 7:40 PM: Learning more about how PWM modulation works to drive the motors with the new board, Tim found these links.

[1]<https://www.robotshop.com/community/forum/t/arduino-101-timers-and-interrupts/13072>

[2]<https://github.com/esp8266/Arduino/issues/1265>

It turns out that the DRV88 Sample file from 4/16 is doing two things: Setting register permissions for the timers on the arduino board and setting timer frequency.



**From [1] on previous page, explains how the timer frequency for a board is determined, which is necessary in PWM.**

Other ways to do PWM are analog write frequency,🡪

So the two options presented here are to change the drv8835 motor driver class page 107.