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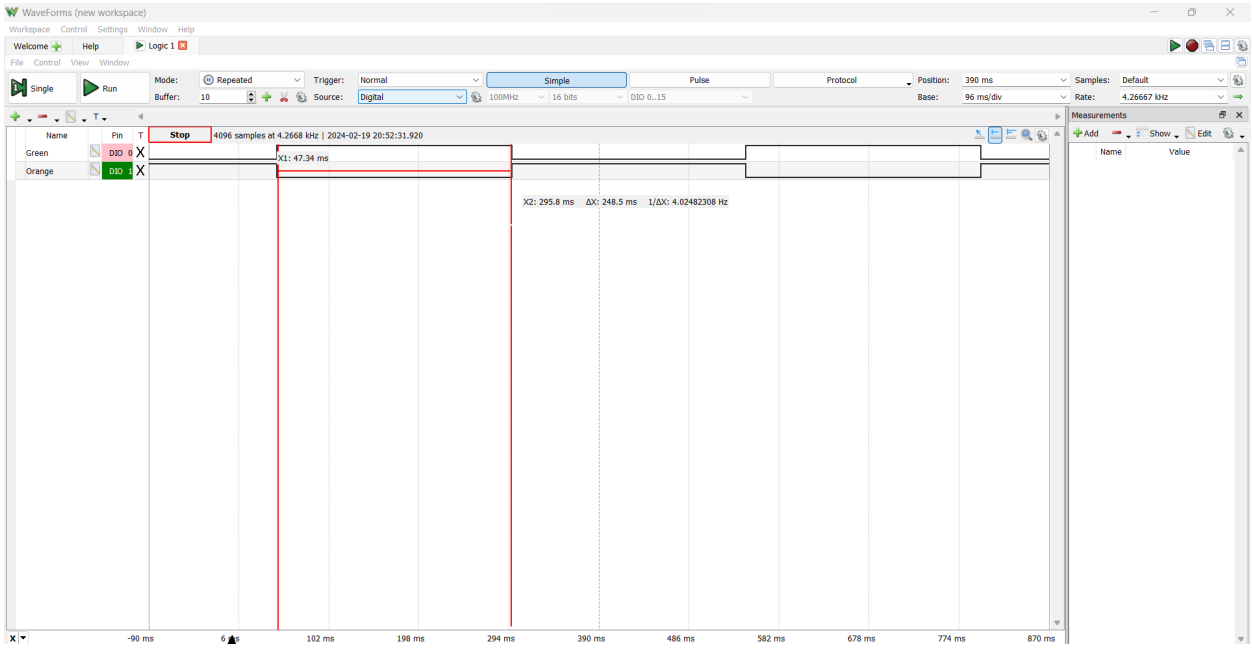
ECE 5780

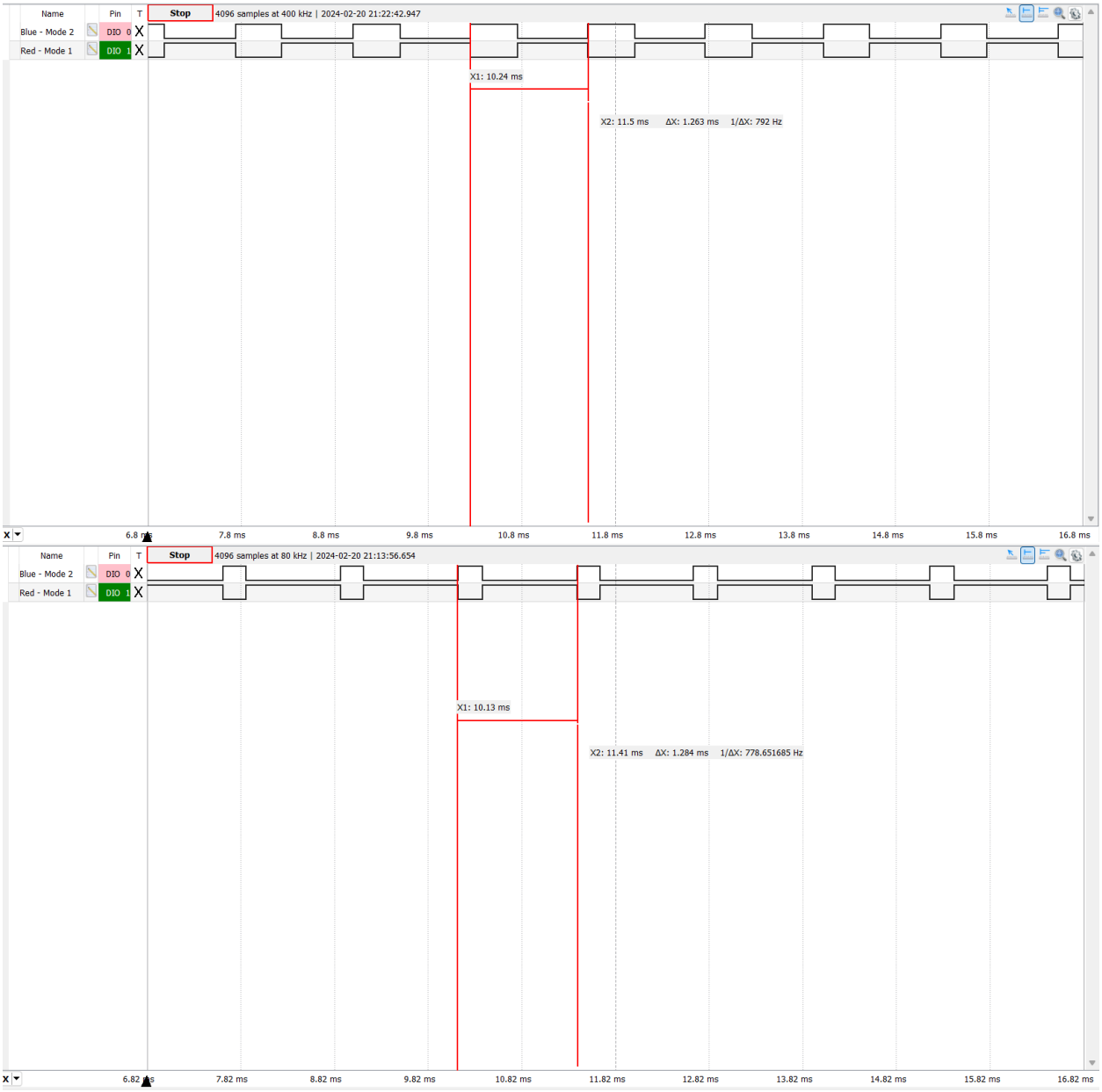
Lab 03 Postlab

1. One set of values that make the interrupt close to 60 Hz is PSC = 2563 and ARR = 52.
2. The pins that have a timer 3 capture/compare channel 1 alternate function are: PE3, PA6, PC6, and PB4.
3. The UEV interrupt period was 4.0248 Hz.



4. In PWM mode 1 the percentage of time the LED is on decreases as the ARR value goes up. The LED is off until the value is reached and then it switches to on for the rest of the cycle.
5. In PWM mode 2 the percentage of time the LED is on increases as the ARR value goes up. The LED is on until the value is reached and then it switches off for the rest of the cycle.

6. Below is a capture of the duty cycle at 40% and 20%.



7. Figure 3.6 shows PWM mode 1.