Lab5 PWM and Logic Analyzer Report

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Discussions of Work

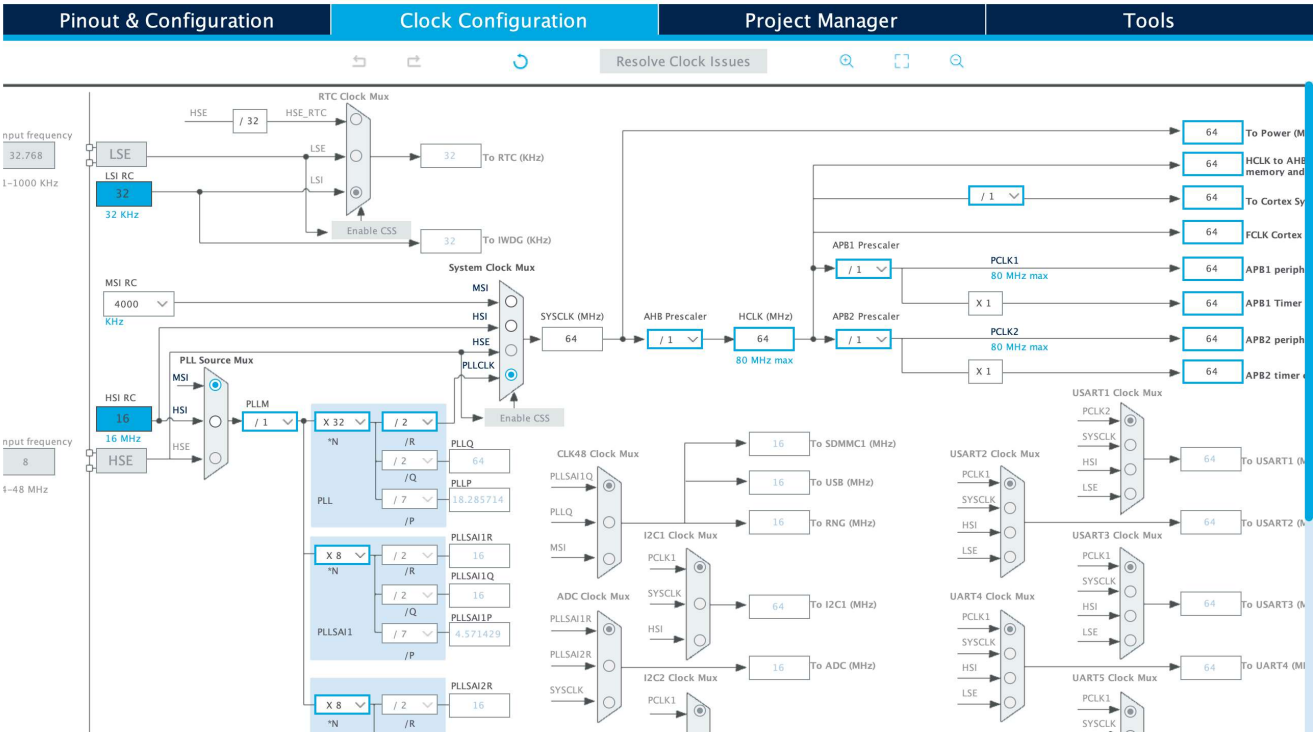
1. Mbed Studio or Stm32cubeide (choose one for your group) projects (in github)

Stm32cubeide

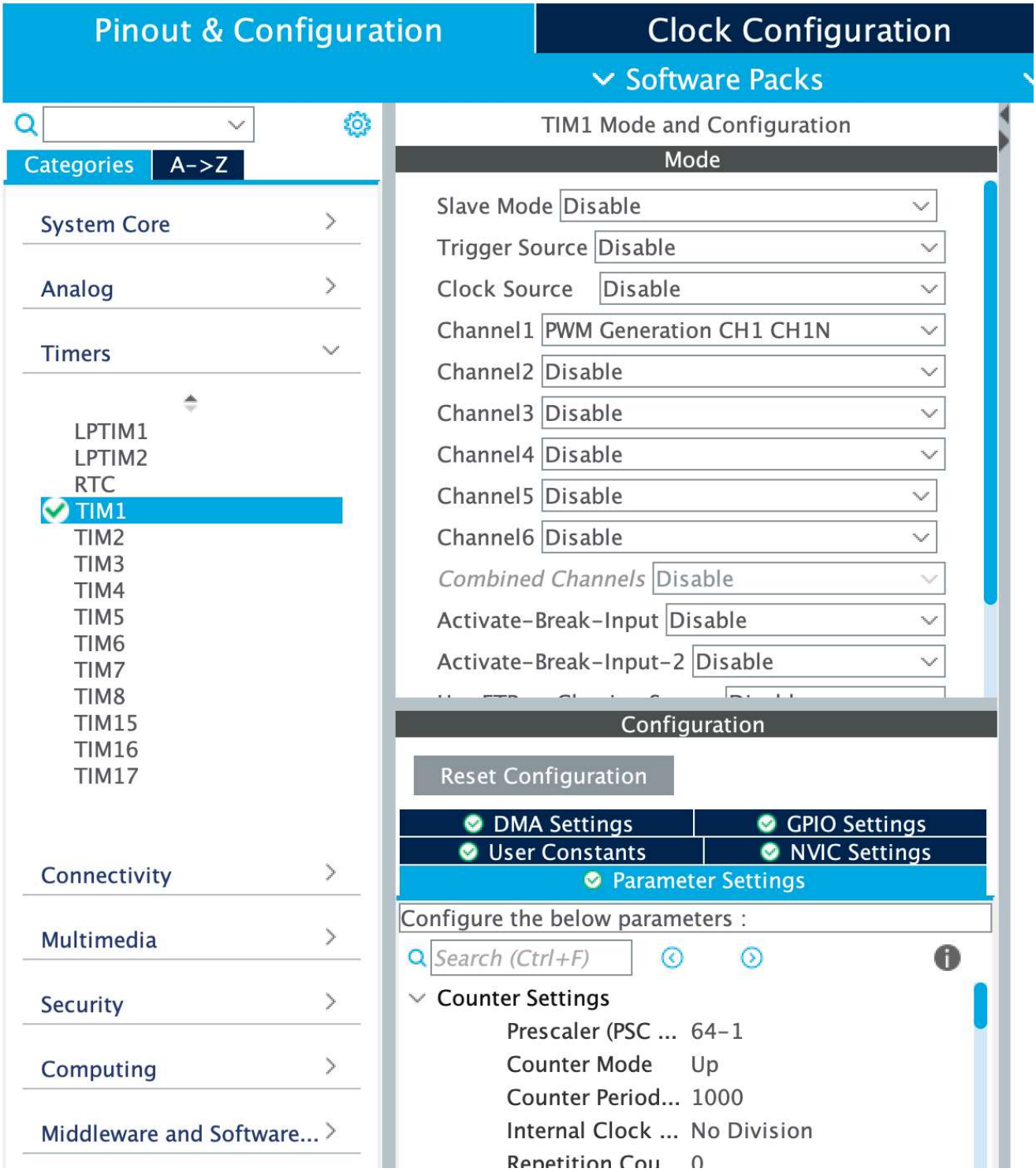
2. A report about your lab steps, PWM waveforms observation using LA and discussions.

The following Step are associated with problem 3 (dead time insertion):

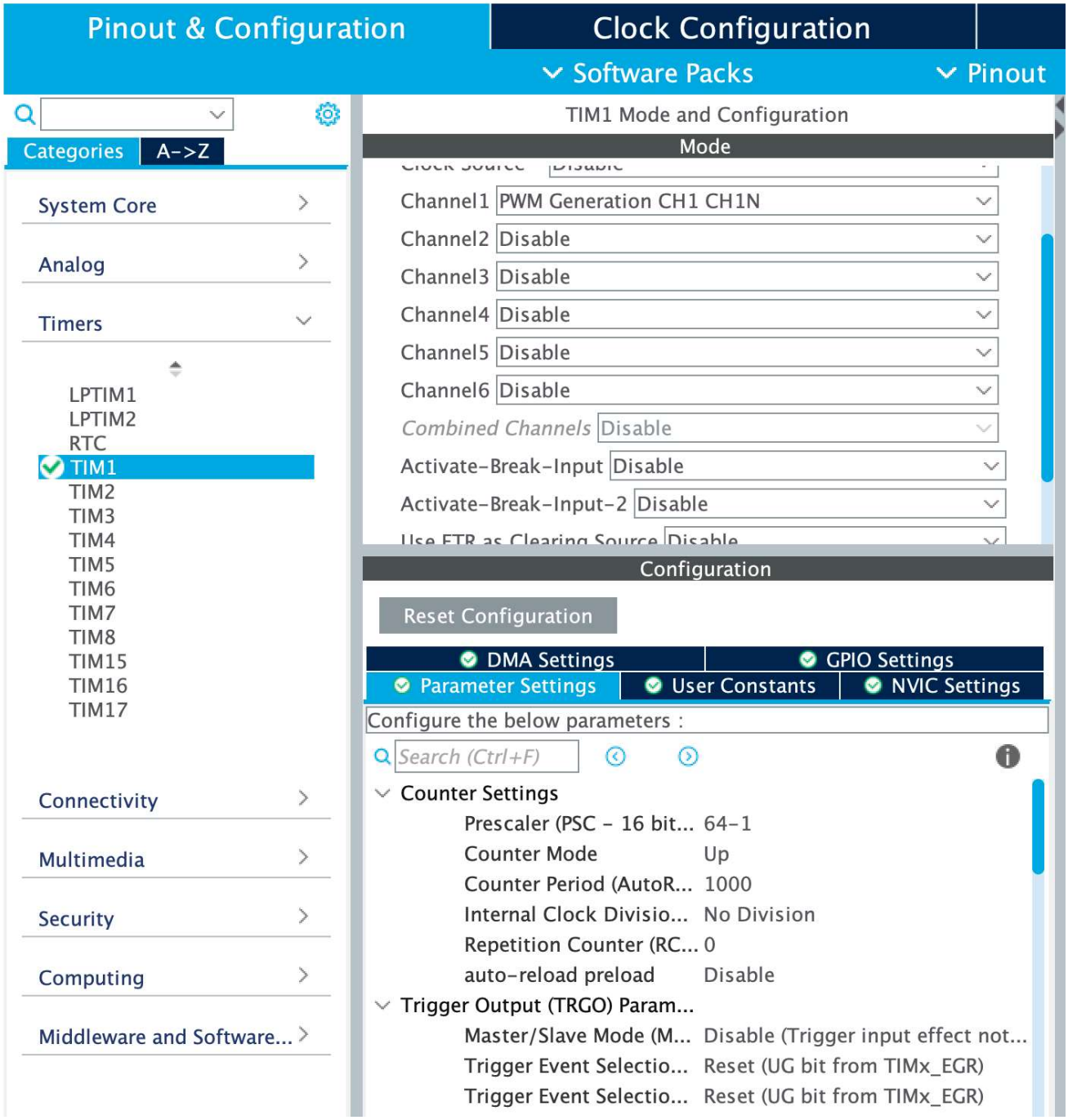
1. adjust bus clock to 64 MHz



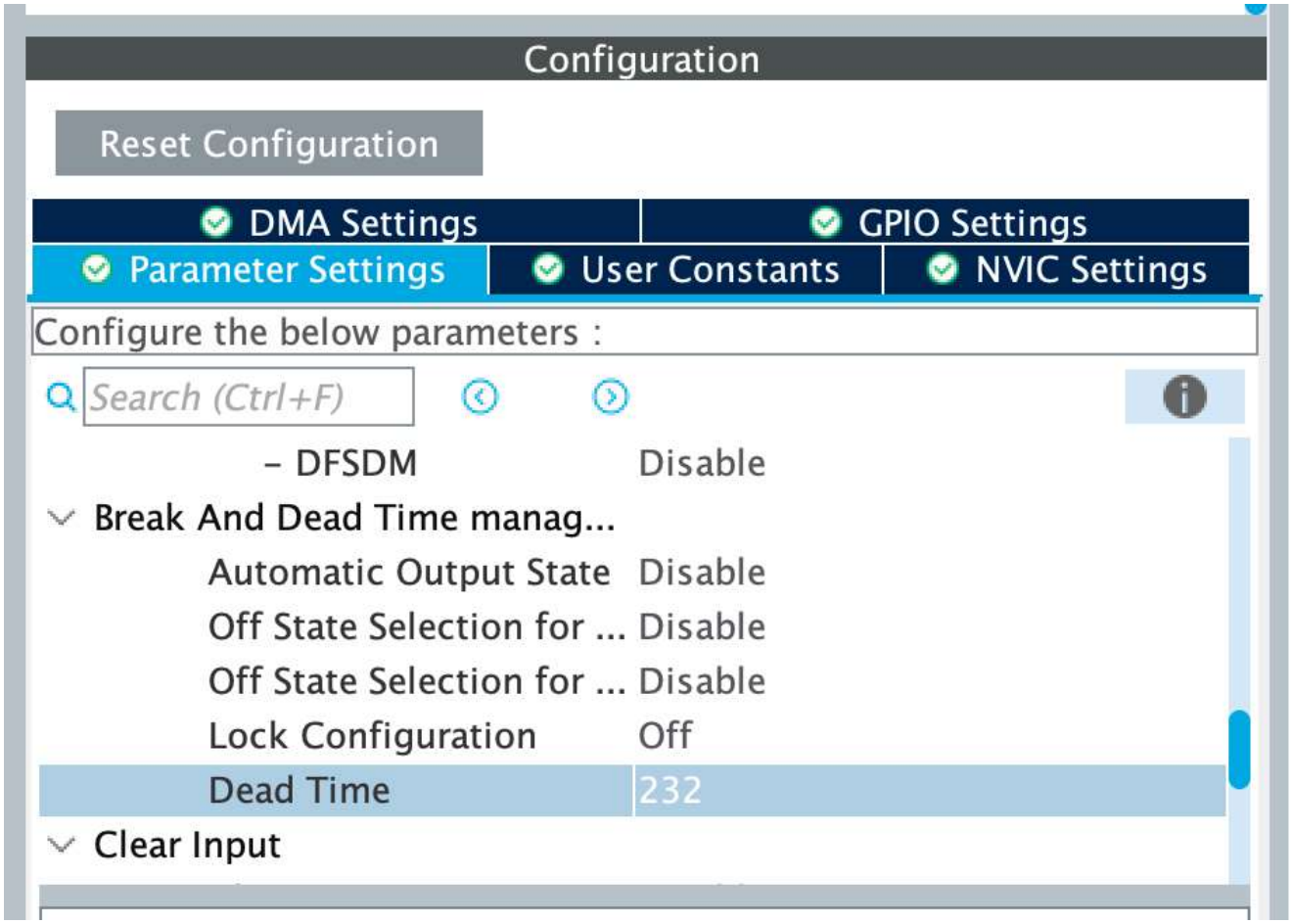
2. change Timer (TIM1)'s Channel 1 to PWM Generation CH1 CH1N



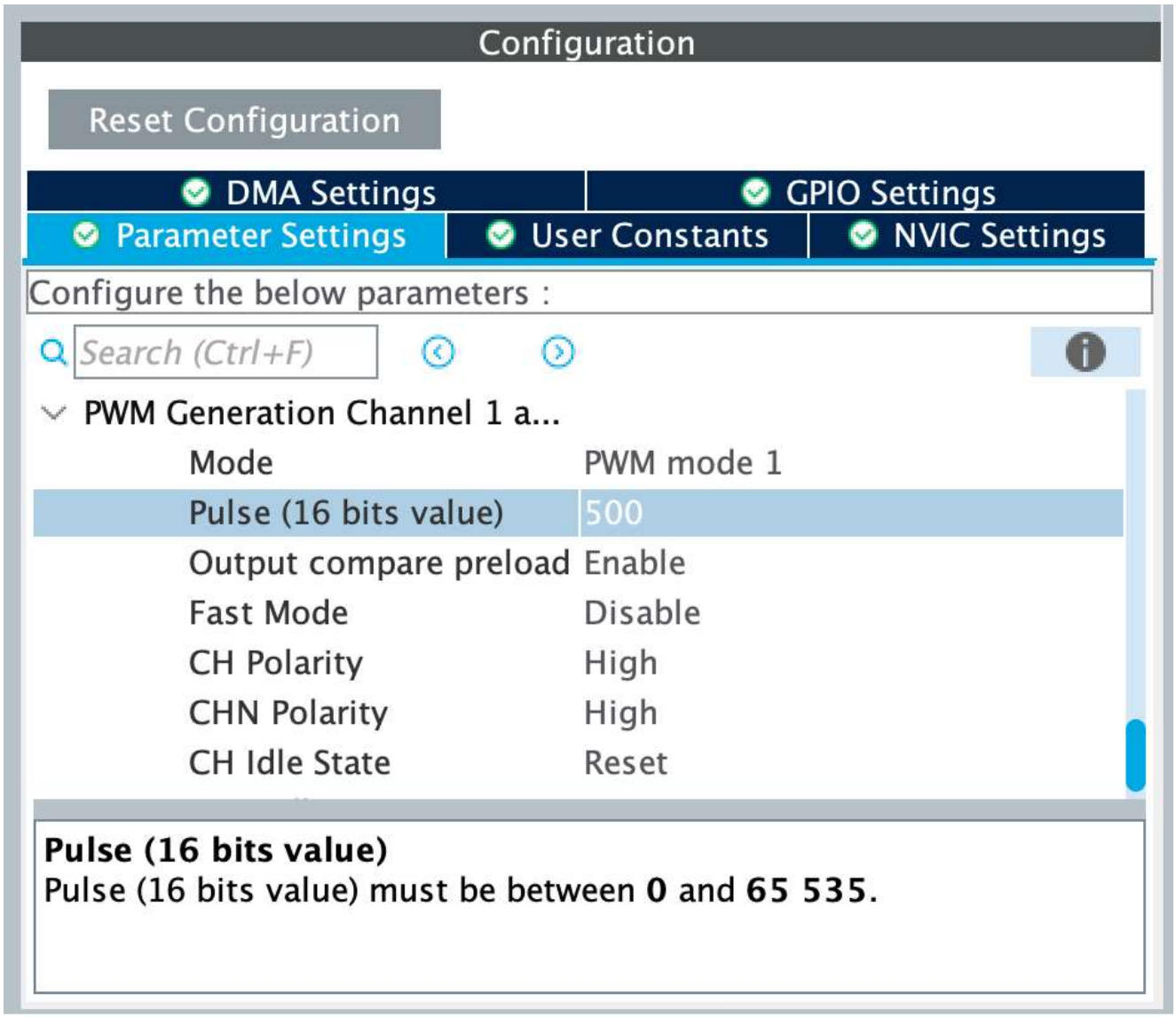
3. under Configuration
    - change "Prescaler" to 64-1
    - change "Counter Period" to 1000 (1s)



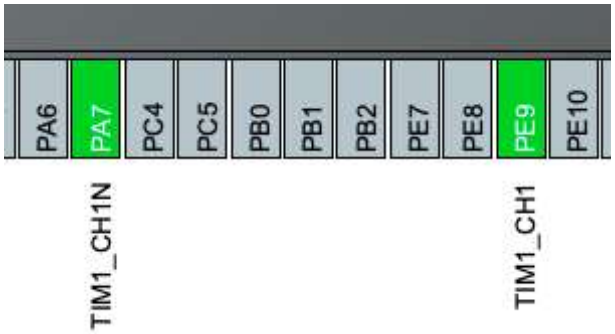
4. change "dead time" to 232
    - means 232 ticks, which can insert dead time of 10us



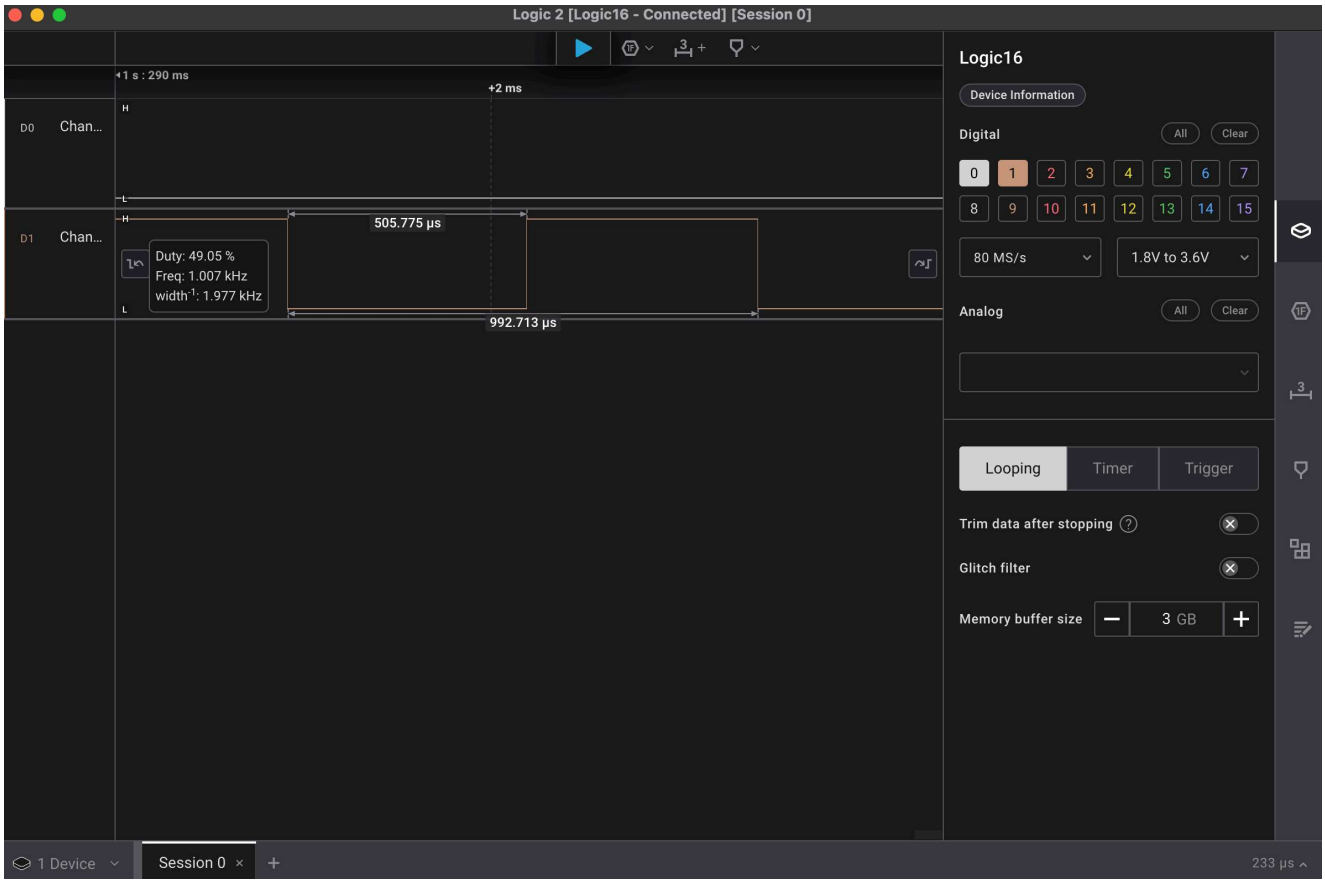
5. change "Pulse" to 500 for 50% duty period
(500/1000 = 50%)



6. connect LA to pin "PA7" & "PE9"(PE9 cannot connect)



7. we can only observe "PA7"



3. Discuss how to generate complementary PWM with dead time insertion in STM32 platform.

As describe above, but can only observe PA7 pin.