

Delay Example of around 1.3 ms on the STM32f407 discovery board

```
void tim6_delay(void) {  
    // enable APB1 bus clock  
    RCC->APB1ENR|=RCC_APB1ENR_TIM6EN;  
    //TIM6 prescaler set at default to 0 for now  
    TIM6->PSC=0; // prescaler  
    TIM6->ARR = 21000; //auto reload register  
    TIM6->CNT=0; //clear counter register  
    TIM6->CR1|=TIM_CR1_CEN;  
    //WHEN COUNTER IS DONE THE TIM6_SR REG UIF FLAG IS SET  
    while(TIM6->SR==0);  
    TIM6->SR=0; //CLEAR UIF FLAG  
}
```