#include "pbdata.h"

void RCC\_Configuration(void);

void GPIO\_Configuration(void);

void TIM3\_Configuration(void);

void NVIC\_Configuration(void);

int main(void)

{

RCC\_Configuration(); //系统时钟初始化

GPIO\_Configuration();//端口初始化

TIM3\_Configuration();

NVIC\_Configuration();

while(1);

}

void RCC\_Configuration(void)

{

SystemInit();

RCC\_APB2PeriphClockCmd(RCC\_APB2Periph\_GPIOE,ENABLE);

RCC\_APB1PeriphClockCmd(RCC\_APB1Periph\_TIM3,ENABLE);

}

void GPIO\_Configuration(void)

{

GPIO\_InitTypeDef GPIO\_InitStructure;

//LED，管脚配置为输出模式

GPIO\_InitStructure.GPIO\_Pin=GPIO\_Pin\_2;

GPIO\_InitStructure.GPIO\_Speed=GPIO\_Speed\_50MHz;

GPIO\_InitStructure.GPIO\_Mode=GPIO\_Mode\_Out\_PP;

GPIO\_Init(GPIOE,&GPIO\_InitStructure);

}

//内部时钟中断配置函数

void TIM3\_Configuration(void) //TIM3 定时器初始化子函数

{

TIM\_TimeBaseInitTypeDef TIM\_TimeBaseStruct;

TIM\_ClearITPendingBit(TIM3,TIM\_IT\_Update);//清空定时器溢出标志

TIM\_TimeBaseStruct.TIM\_Period=500;//计数初值，周期为 500/2000=0.25s即每0.25s进行一次中断

TIM\_TimeBaseStruct.TIM\_Prescaler=35999;//预分频36000,一秒钟计数2000次

TIM\_TimeBaseStruct.TIM\_ClockDivision=0;

TIM\_TimeBaseStruct.TIM\_CounterMode=TIM\_CounterMode\_Up;//向上

TIM\_TimeBaseInit(TIM3,&TIM\_TimeBaseStruct);

TIM\_ITConfig(TIM3,TIM\_IT\_Update,ENABLE);

TIM\_Cmd(TIM3,ENABLE); //打开定时器外设

}

void NVIC\_Configuration(void)//设置内部时钟中断优先级

{

NVIC\_InitTypeDef NVIC\_InitStructure;

//////////////////////////5555555555/////////

NVIC\_PriorityGroupConfig(NVIC\_PriorityGroup\_1);// 设置优先级分组

NVIC\_InitStructure.NVIC\_IRQChannel = TIM3\_IRQn;//外部中断线9-5 中断

NVIC\_InitStructure.NVIC\_IRQChannelPreemptionPriority = 0;//设置先占优

//先级

NVIC\_InitStructure.NVIC\_IRQChannelSubPriority = 1; //设置从优先级

NVIC\_InitStructure.NVIC\_IRQChannelCmd = ENABLE;

NVIC\_Init(&NVIC\_InitStructure);

}