Real-Time and Embedded Systems Design – Lab 3 Report Submission

Team 17

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#include <stdint.h>

#include "tm4c123gh6pm.h"

#include "FreeRTOS.h"

#include "task.h"

#include "timers.h"

static void vTask1( void \*pvParameters );

int main()

{

    \_\_asm("CPSID I");

    SYSCTL\_RCGCGPIO\_R=0x20;

    GPIO\_PORTF\_DIR\_R=0x0E;

    GPIO\_PORTF\_DEN\_R=0x0E;

        \_\_asm("CPSIE I");

        xTaskCreate(vTask1, (const portCHAR \*)"Task1", 128, NULL, 1, NULL );

        vTaskStartScheduler();

}

static void vTask1( void \*pvParameters )

{

    for ( ; ; )

    {

        //const TickType\_t xDelay = 500 / portTICK\_RATE\_MS;

        GPIO\_PORTF\_DATA\_R ^=(1U << 1);

        vTaskDelay(2000/portTICK\_RATE\_MS);

        //vTaskDelay(xDelay);

    }

}