main.c File Reference

: Main program body More...

```
#include "main.h"
#include "string.h"
```

Macros

#define	**RT0** 10000
#define	**B** 3470
#define	**VCC** 3.3
#define	**R** 10000
#define	**DHT11_PORT** GPIOA
#define	**DHT11_PIN** GPIO_PIN_4

Functions

void	**SystemClock_Config** (void)
	System Clock Configuration. More...
void	**debugPrintln** (UART_HandleTypeDef *uart_handle, char _out[])
	General purpose Function to send a char array over the UART and to automatically send a new line character after it. More...
void	**microDelay** (uint16_t delay)
	MICRO time delay. More...
uint8_t	**DHT11_Start** (void)
	The DHT11 START POINT. More...

uint8_t	**DHT11_Read** (void)
	to get an start reading the values from a dht11 sensor More...

int	**main** (void)
	The application entry point. More...

void	**Error_Handler** (void)
	This function is executed in case of error occurrence. More...

Variables

ADC_HandleTypeDef	**hadc**
I2C_HandleTypeDef	**hi2c2**
TIM_HandleTypeDef	**htim1**
UART_HandleTypeDef	**huart2**
uint16_t	**readValue**
char	**str** [60] = { 0 }
uint8_t	**RHI**
uint8_t	**RHD**
uint8_t	**TCI**
uint8_t	**TCD**
uint8_t	**SUM**

uint32_t	**pMillis**
uint32_t	**cMillis**
float	**tCelsius** = 0
float	**tFahrenheit** = 0
float	**RH** = 0

Detailed Description

: Main program body

Attention

Function Documentation

◆ debugPrintln()

```
void debugPrintln ( UART_HandleTypeDef *  uart_handle,
                    char                  _out[]
                  )
```

General purpose Function to send a char array over the UART and to automatically send a new line character after it.

Return values

int

◆ DHT11_Read()

uint8_t DHT11_Read (void)

to get an start reading the values from a dht11 sensor

Return values

int

◆ DHT11_Start()

uint8_t DHT11_Start (void)

The DHT11 START POINT.

Return values

int

◆ Error_Handler()

void Error_Handler (void)

This function is executed in case of error occurrence.

Return values

None

◆ main()

int main (void)

The application entry point.

Return values

int

◆ microDelay()

void microDelay (uint16_t delay)

MICRO time delay.

Return values

int

◆ SystemClock_Config()

void SystemClock_Config (void)

System Clock Configuration.

Return values

None

Initializes the RCC Oscillators according to the specified parameters in the RCC_OscInitTypeDef structure.

Initializes the CPU, AHB and APB buses clocks