mbed-lib

1.0

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File Index

1.1 File List

Here is a list of all documented files with brief descriptions:

Chapter 2

File Documentation

2.1 mbed.h File Reference

```
#include "LPC17xx.h" #include "mbed_can.h" #include "mbed-
_gpio.h"   #include "mbed_led.h"   #include "mbed_musb.h" ×
#include "mbed_serial.h" #include "mbed_timer.h"
```

Defines

- #define INIT_LED (1 << 1)
- #define INIT_MUSB (1 << 2)
- #define INIT_SERIAL0 (1 << 3)
- #define INIT_SERIAL1 (1 << 4)
- #define INIT_SERIAL2 (1 << 5)
- #define INIT_CAN0 (1 << 6)
- #define INIT_CAN1 (1 << 7)
- #define INIT_TIMER0 (1 << 8)
- #define INIT_TIMER1 (1 << 9)
- #define INIT_TIMER2 (1 << 10)
- #define INIT_TIMER3 (1 << 11)
- #define INIT_GPI (1 << 12)
- #define INIT_GPO (1 << 13)
- #define **MBED_SYS_INIT** (1 << 0)
- #define **MBED_LED_INIT** (1 << 1)
- #define **MBED_MUSB_INIT** (1 << 2)
- #define **MBED_SERIAL0_INIT** (1 << 3)
- #define **MBED_SERIAL1_INIT** (1 << 4)
- #define **MBED_SERIAL2_INIT** (1 << 5)
- #define **MBED_CAN0_INIT** (1 << 6)
- #define **MBED_CAN1_INIT** (1 << 7)
- #define **MBED_TIMER0_INIT** (1 << 8)

- #define **MBED_TIMER1_INIT** (1 $<<$ 9)
- #define **MBED_TIMER2_INIT** (1 $<<$ 10)
- #define **MBED_TIMER3_INIT** (1 $<<$ 11)
- #define **MBED_GPI_INIT** (1 $<<$ 12)
- #define **MBED_GPO_INIT** (1 $<<$ 13)
- #define **MBED_GPIOX** (1 $<<$ 0)
- #define **MBED_GPIO5** (1 $<<$ 1)
- #define **MBED_GPIO6** (1 $<<$ 2)
- #define **MBED_GPIO7** (1 $<<$ 3)
- #define **MBED_GPIO8** (1 $<<$ 4)
- #define **MBED_GPIO9** (1 $<<$ 5)
- #define **MBED_GPIO10** (1 $<<$ 6)
- #define **MBED_GPIO11** (1 $<<$ 7)
- #define **MBED_GPIO12** (1 $<<$ 8)
- #define **MBED_GPIO13** (1 $<<$ 9)
- #define **MBED_GPIO14** (1 $<<$ 10)
- #define **MBED_GPIO15** (1 $<<$ 11)
- #define **MBED_GPIO16** (1 $<<$ 12)
- #define **MBED_GPIO17** (1 $<<$ 13)
- #define **MBED_GPIO18** (1 $<<$ 14)
- #define **MBED_GPIO19** (1 $<<$ 15)
- #define **MBED_GPIO20** (1 $<<$ 16)
- #define **MBED_GPIO21** (1 $<<$ 17)
- #define **MBED_GPIO22** (1 $<<$ 18)
- #define **MBED_GPIO23** (1 $<<$ 19)
- #define **MBED_GPIO24** (1 $<<$ 20)
- #define **MBED_GPIO25** (1 $<<$ 21)
- #define **MBED_GPIO26** (1 $<<$ 22)
- #define **MBED_GPIO27** (1 $<<$ 23)
- #define **MBED_GPIO28** (1 $<<$ 24)
- #define **MBED_GPIO29** (1 $<<$ 25)
- #define **MBED_GPIO30** (1 $<<$ 26)
- #define **MBED_GPIO_P0** (MBED_GPIO5 | MBED_GPIO6 | MBED_GPIO7 | M-BED_GPIO8 | MBED_GPIO9 | MBED_GPIO10 | MBED_GPIO11 | MBED_GP-IO12 | MBED_GPIO13 | MBED_GPIO14 | MBED_GPIO15 | MBED_GPIO16 | MBED_GPIO17 | MBED_GPIO18 | MBED_GPIO27 | MBED_GPIO28 | MBED_-GPIO29 | MBED_GPIO30)
- #define **MBED_GPIO_P1** (MBED_GPIO19 | MBED_GPIO20)
- #define **MBED_GPIO_P2** (MBED_GPIO21 | MBED_GPIO22 | MBED_GPIO23 | MBED_GPIO24 | MBED_GPIO25 | MBED_GPIO26)
- #define **MBED_SERIAL0** 0
- #define **MBED_SERIAL1** 1
- #define **MBED_SERIAL2** 2
- #define **MBED_CAN0** 0
- #define **MBED_CAN1** 1
- #define **MBED_TIMER0** 0
- #define **MBED_TIMER1** 1
- #define **MBED_TIMER2** 2
- #define **MBED_TIMER3** 3

Functions

- void **initSys** (uint32_t)

Variables

- volatile uint32_t **mbedStatus**

2.1.1 Detailed Description

In this file are all necessary defines for the mbed platform. Also, all all header files are included here for convience, so that including this header file is sufficient.

2.1.2 Define Documentation

2.1.2.1 #define INIT_CAN0 (1 $<<$ 6)

CAN on DIP 9/10 (CAN1).

2.1.2.2 #define INIT_CAN1 (1 $<<$ 7)

CAN on DIP 29/30 (CAN2).

2.1.2.3 #define INIT_GPI (1 $<<$ 12)

Initialize general purpose input ports.

2.1.2.4 #define INIT_GPO (1 $<<$ 13)

Initialize general purpose output ports.

2.1.2.5 #define INIT_LED (1 $<<$ 1)

Initialize the four blue LEDs.

2.1.2.6 #define INIT_MUSB (1 $<<$ 2)

Serial on mini USB-B port (UART0).

2.1.2.7 #define INIT_SERIAL0 (1 $<<$ 3)

Serial on DIP 13/14 (UART1).

2.1.2.8 #define INIT_SERIAL1 (1 $<<$ 4)

Serial on DIP 27/28 (UART2).

2.1.2.9 #define INIT_SERIAL2 (1 $<<$ 5)

Serial on DIP 9/10 (UART3).

2.1.2.10 #define INIT_TIMER0 (1 $<<$ 8)

Initialize TIMER0.

2.1.2.11 #define INIT_TIMER1 (1 $<<$ 9)

Initialize TIMER1.

2.1.2.12 #define INIT_TIMER2 (1 $<<$ 10)

Initialize TIMER2.

2.1.2.13 #define INIT_TIMER3 (1 $<<$ 11)

Initialize TIMER3.