

GPIO Interrupt

Generated by Doxygen 1.9.1

1 Class Index	1
1.1 Class List	1
2 File Index	3
2.1 File List	3
3 Class Documentation	5
3.1 EXTI_t Struct Reference	5
3.2 GPIOx_t Struct Reference	5
3.3 RCC_t Struct Reference	6
3.4 SYSCFG_t Struct Reference	6
3.5 TIMx_t Struct Reference	7
4 File Documentation	9
4.1 /home/strayker/Coding/040_bare_metal_stm32f401re_gpio_interrupt/src/main.c File Reference . . .	9
Index	11

Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

EXTI_t	5
GPIOx_t	5
RCC_t	6
SYSCFG_t	6
TIMx_t	7

Chapter 2

File Index

2.1 File List

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

/home/strayker/Coding/040_bare_metal_stm32f401re_gpio_interrupt/inc/ peripherals.h	??
/home/strayker/Coding/040_bare_metal_stm32f401re_gpio_interrupt/src/ main.c Entry Point Initialization	9

Chapter 3

Class Documentation

3.1 EXTI_t Struct Reference

Public Attributes

- __IO uint32_t **EXTI_IMR**
- __IO uint32_t **EXTI_EMR**
- __IO uint32_t **EXTI_RTSR**
- __IO uint32_t **EXTI_FTSR**
- __IO uint32_t **EXTI_SWIER**
- __IO uint32_t **EXTI_PR**

The documentation for this struct was generated from the following file:

- /home/strayker/Coding/040_bare_metal_stm32f401re_gpio_interrupt/inc/peripherals.h

3.2 GPIOx_t Struct Reference

Public Attributes

- __IO uint32_t **GPIOx_MODER**
- __IO uint32_t **GPIOx_OTYPER**
- __IO uint32_t **GPIOx_OSPEEDER**
- __IO uint32_t **GPIOx_PUPDR**
- __IO uint32_t **GPIOx_IDR**
- __IO uint32_t **GPIOx_ODR**
- __IO uint32_t **GPIOx_BSRR**
- __IO uint32_t **GPIOx_LCKR**
- __IO uint32_t **GPIOx_AFR1**
- __IO uint32_t **GPIOx_AFRH**

The documentation for this struct was generated from the following file:

- /home/strayker/Coding/040_bare_metal_stm32f401re_gpio_interrupt/inc/peripherals.h

3.3 RCC_t Struct Reference

Public Attributes

- __IO uint32_t **RCC_CR**
- __IO uint32_t **RCC_PLLCFG**
- __IO uint32_t **RCC_CFGR**
- __IO uint32_t **RCC_CIR**
- __IO uint32_t **RCC_AHB1RSTR**
- __IO uint32_t **RCC_AHB2RSTR**
- __IO uint32_t **res1** [2]
- __IO uint32_t **RCC_APB1RSTR**
- __IO uint32_t **RCC_APB2RSTR**
- __IO uint32_t **res2** [2]
- __IO uint32_t **RCC_AHB1ENR**
- __IO uint32_t **RCC_AHB2ENR**
- __IO uint32_t **res3** [2]
- __IO uint32_t **RCC_APB1ENR**
- __IO uint32_t **RCC_APB2ENR**
- __IO uint32_t **res4** [2]
- __IO uint32_t **RCC_AHB1LPENR**
- __IO uint32_t **RCC_AHB2LPENR**
- __IO uint32_t **res5** [2]
- __IO uint32_t **RCC_APB1LPENR**
- __IO uint32_t **RCC_APB2LPENR**
- __IO uint32_t **res6** [2]
- __IO uint32_t **RCC_BDCR**
- __IO uint32_t **RCC_CSR**
- __IO uint32_t **res7** [2]
- __IO uint32_t **RCC_SSCGR**
- __IO uint32_t **RCC_PLLI2SCFGR**
- __IO uint32_t **res8**
- __IO uint32_t **RCC_DCKCFGR**

The documentation for this struct was generated from the following file:

- /home/strayker/Coding/040_bare_metal_stm32f401re_gpio_interrupt/inc/peripherals.h

3.4 SYSCFG_t Struct Reference

Public Attributes

- __IO uint32_t **SYSCFG_MEMRMP**
- __IO uint32_t **SYSCFG_PMC**
- __IO uint32_t **SYSCFG_EXTICR1**
- __IO uint32_t **SYSCFG_EXTICR2**
- __IO uint32_t **SYSCFG_EXTICR3**
- __IO uint32_t **SYSCFG_EXTICR4**
- __IO uint32_t **res** [2]
- __IO uint32_t **SYSCFG_CMPCR**

The documentation for this struct was generated from the following file:

- /home/strayker/Coding/040_bare_metal_stm32f401re_gpio_interrupt/inc/peripherals.h

3.5 TIMx_t Struct Reference

Public Attributes

- __IO uint32_t **TIMx_CR1**
- __IO uint32_t **TIMx_CR2**
- __IO uint32_t **TIMx_SMCR**
- __IO uint32_t **TIMx_DIER**
- __IO uint32_t **TIMx_SR**
- __IO uint32_t **TIMx_EGR**
- __IO uint32_t **TIMx_CCMR1**
- __IO uint32_t **TIMx_CCMR2**
- __IO uint32_t **TIMx_CCER**
- __IO uint32_t **TIMx_CNT**
- __IO uint32_t **TIMx_PSC**
- __IO uint32_t **TIMx_ARR**
- __IO uint32_t **res1**
- __IO uint32_t **TIMx_CCR1**
- __IO uint32_t **TIMx_CCR2**
- __IO uint32_t **TIMx_CCR3**
- __IO uint32_t **TIMx_CCR4**
- __IO uint32_t **res2**
- __IO uint32_t **TIMx_DCR**
- __IO uint32_t **TIMx_DMAR**
- __IO uint32_t **TIMx_OR**

The documentation for this struct was generated from the following file:

- /home/strayker/Coding/040_bare_metal_stm32f401re_gpio_interrupt/inc/peripherals.h

Chapter 4

File Documentation

4.1 `/home/strayker/Coding/040_bare_metal_stm32f401re_gpio_interrupt/src/main.c` File Reference ↩

Entry Point Initialization.

```
#include <stdint.h>
#include "peripherals.h"
Include dependency graph for main.c:
```


Index

/home/strayker/Coding/040_bare_metal_stm32f401re_gpio_interrupt/src/main.c,
[9](#)

EXTI_t, [5](#)

GPIOx_t, [5](#)

RCC_t, [6](#)

SYSCFG_t, [6](#)

TIMx_t, [7](#)