UMdrvGpt2

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Version
Mon Dec 23 2019

Table of Contents

Table of contents

Class Index

Class List

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

ConfigPtr 4

File Index

File List

Here is a list of all files with brief descriptions:

C:/Users/39347/Desktop/prova/Gpt.c 6
C:/Users/39347/Desktop/prova/Gpt.h 9
C:/Users/39347/Desktop/prova/Gpt_Cfg_Extern_Generated.c 12
C:/Users/39347/Desktop/prova/Gpt_Cfg_Extern_Generated.h 13
C:/Users/39347/Desktop/prova/Gpt_Irq.c 15
C:/Users/39347/Desktop/prova/Gpt_LLD.c 16
C:/Users/39347/Desktop/prova/Gpt_LLD.h 18
C:/Users/39347/Desktop/prova/Gpt_LLD_TMR0.c 20
C:/Users/39347/Desktop/prova/Gpt_LLD_TMR0.h 22
C:/Users/39347/Desktop/prova/Gpt_LLD_TMR1.c 24
C:/Users/39347/Desktop/prova/Gpt_LLD_TMR1.h 26
C:/Users/39347/Desktop/prova/Gpt_LLD_TMR2.c 28
C:/Users/39347/Desktop/prova/Gpt_LLD_TMR2.h 30

Class Documentation

ConfigPtr Struct Reference

`#include <Gpt_Cfg_Extern_Generated.h>`

Public Attributes

- uint8_t GptChannelID
- type_GptHwChannel GptHwChannel
- type_GptClockReference GptClockReference
- uint32_t GptClockPrescaler
- uint32_t GptChannelTickValueMax
- char GptNotification [30]

Detailed Description

Definition at line 8 of file Gpt_Cfg_Extern_Generated.h.

Member Data Documentation

uint8_t ConfigPtr::GptChannelID

Definition at line 9 of file Gpt_Cfg_Extern_Generated.h.

uint32_t ConfigPtr::GptChannelTickValueMax

Definition at line 13 of file Gpt_Cfg_Extern_Generated.h.

uint32_t ConfigPtr::GptClockPrescaler

Definition at line 12 of file Gpt_Cfg_Extern_Generated.h.

type_GptClockReference ConfigPtr::GptClockReference

Definition at line 11 of file Gpt_Cfg_Extern_Generated.h.

type_GptHwChannel ConfigPtr::GptHwChannel

Definition at line 10 of file Gpt_Cfg_Extern_Generated.h.

char ConfigPtr::GptNotification[30]

Definition at line 14 of file Gpt_Cfg_Extern_Generated.h.

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

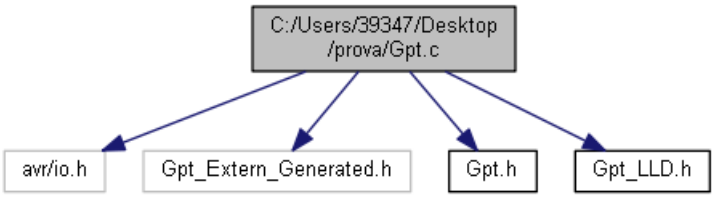
- C:/Users/39347/Desktop/prova/Gpt_Cfg_Extern_Generated.h

File Documentation

C:/Users/39347/Desktop/prova/Gpt.c File Reference

```
#include <avr/io.h>
#include "Gpt_Extern_Generated.h"
#include "Gpt.h"
#include "Gpt_LLD.h"
```

Include dependency graph for Gpt.c:



Functions

- void Gpt_Init (void)
  GPT driver initialization function.

- void Gpt_DeInit (void)
- void Gpt_StartTimer (uint32_t channel, uint32_t value)
- void Gpt_EnableNotification (uint32_t channel)
- uint32_t Gpt_GetTimeElapsed (uint32_t channel)
- uint32_t Gpt_GetTimeRemaining (uint32_t channel)
- void Gpt_StopTimer (uint32_t channel)
- void Gpt_DisableNotification (uint32_t channel)

Variables

- type_GptDriverModes Gpt_DriverModeActual = MODE_UNINITIALIZED
- type_GptTimerChannelStates Gpt_TimerChannelStateActual = STATE_TRASH

Function Documentation

void Gpt_DeInit (void)

Definition at line 84 of file Gpt.c.

void Gpt_DisableNotification (uint32_t *channel*)

Definition at line 225 of file Gpt.c.

void Gpt_EnableNotification (uint32_t *channel*)

Definition at line 138 of file Gpt.c.

uint32_t Gpt_GetTimeElapsed (uint32_t *channel*)

Definition at line 160 of file Gpt.c.

uint32_t Gpt_GetTimeRemaining (uint32_t *channel*)

Definition at line 182 of file Gpt.c.

void Gpt_Init (void)

GPT driver initialization function.

Service for driver initialization. The Initialization function shall initialize all relevant registers of the configured hardware with the values of the structure referenced by the parameter ConfigPtr. All time units used within the API services of the GPT driver shall be of the unit ticks. This function shall only initialize the configured resources. Resources that are not configured in the configuration file shall not be touched. The following rules regarding initialization of controller registers shall apply to the GPT Driver implementation:

- If the hardware allows for only one usage of the register, the driver module implementing that functionality is responsible for initializing the register
- If the register can affect several hardware modules and if it is an I/O register it shall be initialized by the PORT driver
- If the register can affect several hardware modules and if it is not an I/O register it shall be initialized by the MCU driver
- One-time writable registers that require initialization directly after reset shall be initialized by the startup code
- All other registers shall be initialized by the startup code

Parameters

in	*configPtr*	Pointer to a selected configuration structure

@api

Definition at line 55 of file Gpt.c.

void Gpt_StartTimer (uint32_t *channel*, uint32_t *value*)

Definition at line 115 of file Gpt.c.

void Gpt_StopTimer (uint32_t *channel*)

Definition at line 204 of file Gpt.c.

Variable Documentation

type_GptDriverModes Gpt_DriverModeActual = MODE_UNINITIALIZED

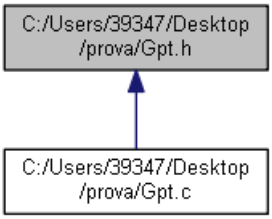
Definition at line 26 of file Gpt.c.

type_GptTimerChannelStates Gpt_TimerChannelStateActual = STATE_TRASH

Definition at line 27 of file Gpt.c.

C:/Users/39347/Desktop/prova/Gpt.h File Reference

This graph shows which files directly or indirectly include this file:



Enumerations

- enum type_GptDriverModes { MODE_UNINITIALIZED, MODE_NORMAL, MODE_SLEEP, MODE_TRASH }
- enum type_GptTimerChannelStates { STATE_INITIALIZED, STATE_RUNNING, STATE_STOPPED, STATE_EXPIRED, STATE_TRASH }

Functions

- void Gpt_Init (void)
  GPT driver initialization function.

- void Gpt_DeInit (void)
- uint32_t Gpt_GetTimeElapsed (uint32_t channel)
- uint32_t Gpt_GetTimeRemaining (uint32_t channel)
- void Gpt_StartTimer (uint32_t channel, uint32_t value)
- void Gpt_StopTimer (uint32_t channel)
- void Gpt_EnableNotification (uint32_t channel)
- void Gpt_DisableNotification (uint32_t channel)

Enumeration Type Documentation

enum type_GptDriverModes

Enumerator:

MODE_UNINITIALIZED	
MODE_NORMAL	
MODE_SLEEP	
MODE_TRASH	

Definition at line 19 of file Gpt.h.

enum type_GptTimerChannelStates

Enumerator:

STATE_INITIALIZED	
STATE_RUNNING	

STATE_STOPPED	
STATE_EXPIRED	
STATE_TRASH	

Definition at line 20 of file Gpt.h.

Function Documentation

void Gpt_DeInit (void)

Definition at line 84 of file Gpt.c.

void Gpt_DisableNotification (uint32_t *channel*)

Definition at line 225 of file Gpt.c.

void Gpt_EnableNotification (uint32_t *channel*)

Definition at line 138 of file Gpt.c.

uint32_t Gpt_GetTimeElapsed (uint32_t *channel*)

Definition at line 160 of file Gpt.c.

uint32_t Gpt_GetTimeRemaining (uint32_t *channel*)

Definition at line 182 of file Gpt.c.

void Gpt_Init (void)

GPT driver initialization function.

Service for driver initialization. The Initialization function shall initialize all relevant registers of the configured hardware with the values of the structure referenced by the parameter ConfigPtr. All time units used within the API services of the GPT driver shall be of the unit ticks. This function shall only initialize the configured resources. Resources that are not configured in the configuration file shall not be touched. The following rules regarding initialization of controller registers shall apply to the GPT Driver implementation:

- If the hardware allows for only one usage of the register, the driver module implementing that functionality is responsible for initializing the register
- If the register can affect several hardware modules and if it is an I/O register it shall be initialized by the PORT driver
- If the register can affect several hardware modules and if it is not an I/O register it shall be initialized by the MCU driver
- One-time writable registers that require initialization directly after reset shall be initialized by the startup code

- All other registers shall be initialized by the startup code

Parameters

in	*configPtr*	Pointer to a selected configuration structure

@api

Definition at line 55 of file Gpt.c.

void Gpt_StartTimer (uint32_t *channel*, uint32_t *value*)

Definition at line 115 of file Gpt.c.

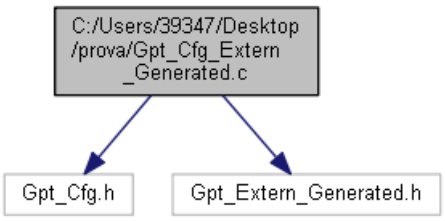
void Gpt_StopTimer (uint32_t *channel*)

Definition at line 204 of file Gpt.c.

C:/Users/39347/Desktop/prova/Gpt_Cfg_Extern_Generated.c File Reference

```
#include "Gpt_Cfg.h"
#include "Gpt_Extern_Generated.h"
```

Include dependency graph for Gpt_Cfg_Extern_Generated.c:



Variables

- ConfigPtr Cfg []

Variable Documentation

ConfigPtr Cfg[]

```
Initial value:=
{
    {
        1,
        TMR1,
        SYS_CLK,
        0,
        65535,
        "GptNotification01",
    },
    {
        2,
        TMR2,
        SYS_CLK,
        64,
        255,
        "GptNotification02",
    }
}
```

Definition at line 8 of file Gpt_Cfg_Extern_Generated.c.

C:/Users/39347/Desktop/prova/Gpt_Cfg_Extern_Generated.h File Reference

Classes

- struct ConfigPtr

Macros

- #define CONFIGURED_CHANNELS 2
- #define MODULE_TMR1
- #define MODULE_TMR2

Enumerations

- enum type_GptHwChannel { TMR0, TMR1, TMR2 }
- enum type_GptClockReference { SYS_CLK, EXT_CLK_FE = 6, EXT_CLK_RE = 7 }

Functions

- void GptNotification01 ()
- void GptNotification02 ()

Variables

- ConfigPtr Cfg []

Macro Definition Documentation

#define CONFIGURED_CHANNELS 2

Definition at line 19 of file Gpt_Cfg_Extern_Generated.h.

#define MODULE_TMR1

Definition at line 21 of file Gpt_Cfg_Extern_Generated.h.

#define MODULE_TMR2

Definition at line 22 of file Gpt_Cfg_Extern_Generated.h.

Enumeration Type Documentation

enum type_GptClockReference

Enumerator:

SYS_CLK	
EXT_CLK_FE	
EXT_CLK_RE	

Definition at line 6 of file Gpt_Cfg_Extern_Generated.h.

enum type_GptHwChannel

Enumerator:

TMR0	
TMR1	
TMR2	

Definition at line 5 of file Gpt_Cfg_Extern_Generated.h.

Function Documentation

void GptNotification01 ()

void GptNotification02 ()

Variable Documentation

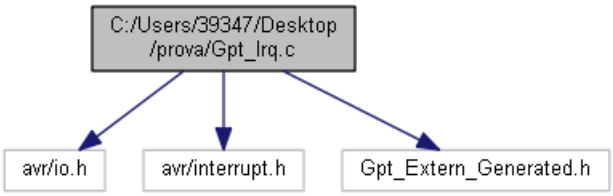
ConfigPtr Cfg[]

Definition at line 8 of file Gpt_Cfg_Extern_Generated.c.

C:/Users/39347/Desktop/prova/Gpt_Irq.c File Reference

```
#include <avr/io.h>
#include <avr/interrupt.h>
#include "Gpt_Extern_Generated.h"
```

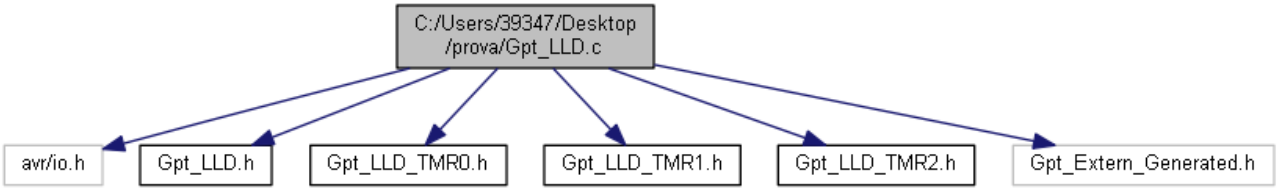
Include dependency graph for Gpt_Irq.c:



C:/Users/39347/Desktop/prova/Gpt_LLD.c File Reference

```
#include <avr/io.h>
#include "Gpt_LLD.h"
#include "Gpt_LLD_TMR0.h"
#include "Gpt_LLD_TMR1.h"
#include "Gpt_LLD_TMR2.h"
#include "Gpt_Extern_Generated.h"
```

Include dependency graph for Gpt_LLD.c:



Functions

- void Gpt_Init_LLD (uint8_t channel)
- void Gpt_DeInit_LLD (uint8_t channel)
- void Gpt_StartTimer_LLD (uint32_t channel, uint32_t value)
- void Gpt_EnableNotification_LLD (uint32_t channel)
- void Gpt_DisableNotification_LLD (uint32_t channel)
- uint32_t Gpt_GetTimeElapsed_LLD (uint32_t channel)
- uint32_t Gpt_GetTimeRemaining_LLD (uint32_t channel)
- void Gpt_StopTimer_LLD (uint32_t channel)

Function Documentation

void Gpt_DeInit_LLD (uint8_t *channel*)

Definition at line 52 of file Gpt_LLD.c.

void Gpt_DisableNotification_LLD (uint32_t *channel*)

Definition at line 128 of file Gpt_LLD.c.

void Gpt_EnableNotification_LLD (uint32_t *channel*)

Definition at line 104 of file Gpt_LLD.c.

uint32_t Gpt_GetTimeElapsed_LLD (uint32_t *channel*)

Definition at line 152 of file Gpt_LLD.c.

uint32_t Gpt_GetTimeRemaining_LLD (uint32_t *channel*)

Definition at line 177 of file Gpt_LLD.c.

void Gpt_Init_LLD (uint8_t *channel*)

Definition at line 28 of file Gpt_LLD.c.

void Gpt_StartTimer_LLD (uint32_t *channel*, uint32_t *value*)

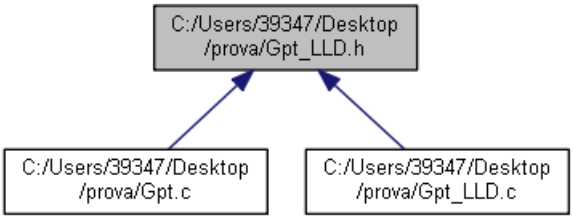
Definition at line 76 of file Gpt_LLD.c.

void Gpt_StopTimer_LLD (uint32_t *channel*)

Definition at line 184 of file Gpt_LLD.c.

C:/Users/39347/Desktop/prova/Gpt_LLD.h File Reference

This graph shows which files directly or indirectly include this file:



Functions

- void Gpt_Init_LLD (uint8_t channel)
- void Gpt_DeInit_LLD (uint8_t channel)
- uint32_t Gpt_GetTimeElapsed_LLD (uint32_t channel)
- uint32_t Gpt_GetTimeRemaining_LLD (uint32_t channel)
- void Gpt_StartTimer_LLD (uint32_t channel, uint32_t value)
- void Gpt_StopTimer_LLD (uint32_t channel)
- void Gpt_EnableNotification_LLD (uint32_t channel)
- void Gpt_DisableNotification_LLD (uint32_t channel)
- void Gpt_SetMode_LLD ()

Function Documentation

void Gpt_DeInit_LLD (uint8_t *channel*)

Definition at line 52 of file Gpt_LLD.c.

void Gpt_DisableNotification_LLD (uint32_t *channel*)

Definition at line 128 of file Gpt_LLD.c.

void Gpt_EnableNotification_LLD (uint32_t *channel*)

Definition at line 104 of file Gpt_LLD.c.

uint32_t Gpt_GetTimeElapsed_LLD (uint32_t *channel*)

Definition at line 152 of file Gpt_LLD.c.

uint32_t Gpt_GetTimeRemaining_LLD (uint32_t *channel*)

Definition at line 177 of file Gpt_LLD.c.

void Gpt_Init_LLD (uint8_t *channel*)

Definition at line 28 of file Gpt_LLD.c.

void Gpt_SetMode_LLD ()

void Gpt_StartTimer_LLD (uint32_t *channel*, uint32_t *value*)

Definition at line 76 of file Gpt_LLD.c.

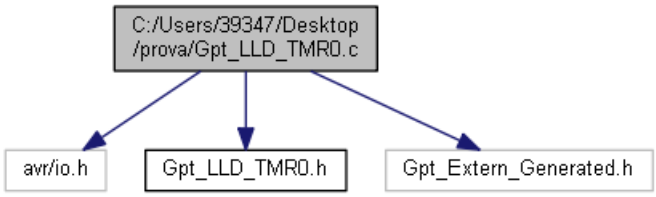
void Gpt_StopTimer_LLD (uint32_t *channel*)

Definition at line 184 of file Gpt_LLD.c.

C:/Users/39347/Desktop/prova/Gpt_LLD_TMR0.c File Reference

```
#include <avr/io.h>
#include "Gpt_LLD_TMR0.h"
#include "Gpt_Extern_Generated.h"
```

Include dependency graph for Gpt_LLD_TMR0.c:



Macros

- #define SET_BIT_REGISTER(Reg_type, REGISTER, mask) { REGISTER |= (Reg_type)mask; }
- #define CLEAR_BIT_REGISTER(Reg_type, REGISTER, mask) { REGISTER &= (Reg_type)(~((0xFF)&(mask))); }

Functions

- void Gpt_Init_LLD_TMR0 ()
- void Gpt_DeInit_LLD_TMR0 (void)
- uint32_t Gpt_GetTimeElapsed_LLD_TMR0 (void)
- void Gpt_StartTimer_LLD_TMR0 (uint32_t value, uint8_t clockValue)
- void Gpt_StopTimer_LLD_TMR0 ()
- void Gpt_EnableNotification_LLD_TMR0 ()
- void Gpt_DisableNotification_LLD_TMR0 (void)
- uint8_t Gpt_CalculateClockSelect_TMR0 (uint8_t clockSource, uint16_t clockPrescaler)

Macro Definition Documentation

#define CLEAR_BIT_REGISTER(Reg_type, REGISTER, mask) { REGISTER &= (Reg_type)(~((0xFF)&(mask))); }

Definition at line 98 of file Gpt_LLD_TMR0.c.

#define SET_BIT_REGISTER(Reg_type, REGISTER, mask) { REGISTER |= (Reg_type)mask; }

Definition at line 97 of file Gpt_LLD_TMR0.c.

Function Documentation

uint8_t Gpt_CalculateClockSelect_TMR0 (uint8_t *clockSource*, uint16_t *clockPrescaler*)

Definition at line 162 of file Gpt_LLD_TMR0.c.

void Gpt_DeInit_LLD_TMR0 (void)

Definition at line 114 of file Gpt_LLD_TMR0.c.

void Gpt_DisableNotification_LLD_TMR0 (void)

Definition at line 154 of file Gpt_LLD_TMR0.c.

void Gpt_EnableNotification_LLD_TMR0 (void)

Definition at line 146 of file Gpt_LLD_TMR0.c.

uint32_t Gpt_GetTimeElapsed_LLD_TMR0 (void)

Definition at line 126 of file Gpt_LLD_TMR0.c.

void Gpt_Init_LLD_TMR0 (void)

Definition at line 100 of file Gpt_LLD_TMR0.c.

void Gpt_StartTimer_LLD_TMR0 (uint32_t *value*, uint8_t *clockValue*)

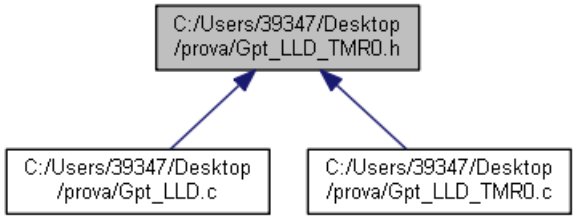
Definition at line 132 of file Gpt_LLD_TMR0.c.

void Gpt_StopTimer_LLD_TMR0 (void)

Definition at line 140 of file Gpt_LLD_TMR0.c.

C:/Users/39347/Desktop/prova/Gpt_LLD_TMR0.h File Reference

This graph shows which files directly or indirectly include this file:



Enumerations

- enum type_GptClockSelect_TMR0 { TMR0_NO_CLK, TMR0_SYS_CLK_P0, TMR0_SYS_CLK_P8, TMR0_SYS_CLK_P64, TMR0_SYS_CLK_P256, TMR0_SYS_CLK_P1024 }

Functions

- void Gpt_Init_LLD_TMR0 (void)
- void Gpt_DeInit_LLD_TMR0 (void)
- uint32_t Gpt_GetTimeElapsed_LLD_TMR0 (void)
- void Gpt_StartTimer_LLD_TMR0 (uint32_t value, uint8_t clockValue)
- void Gpt_StopTimer_LLD_TMR0 (void)
- void Gpt_EnableNotification_LLD_TMR0 (void)
- void Gpt_DisableNotification_LLD_TMR0 (void)
- uint8_t Gpt_CalculateClockSelect_TMR0 (uint8_t clockSource, uint16_t clockPrescaler)

Enumeration Type Documentation

enum type_GptClockSelect_TMR0

Enumerator:

TMR0_NO_CLK	
TMR0_SYS_CLK_P0	
TMR0_SYS_CLK_P8	
TMR0_SYS_CLK_P64	
TMR0_SYS_CLK_P256	
TMR0_SYS_CLK_P1024	

Definition at line 14 of file Gpt_LLD_TMR0.h.

Function Documentation

uint8_t Gpt_CalculateClockSelect_TMR0 (uint8_t *clockSource*, uint16_t *clockPrescaler*)

Definition at line 162 of file Gpt_LLD_TMR0.c.

void Gpt_DeInit_LLD_TMR0 (void)

Definition at line 114 of file Gpt_LLD_TMR0.c.

void Gpt_DisableNotification_LLD_TMR0 (void)

Definition at line 154 of file Gpt_LLD_TMR0.c.

void Gpt_EnableNotification_LLD_TMR0 (void)

Definition at line 146 of file Gpt_LLD_TMR0.c.

uint32_t Gpt_GetTimeElapsed_LLD_TMR0 (void)

Definition at line 126 of file Gpt_LLD_TMR0.c.

void Gpt_Init_LLD_TMR0 (void)

Definition at line 100 of file Gpt_LLD_TMR0.c.

void Gpt_StartTimer_LLD_TMR0 (uint32_t *value*, uint8_t *clockValue*)

Definition at line 132 of file Gpt_LLD_TMR0.c.

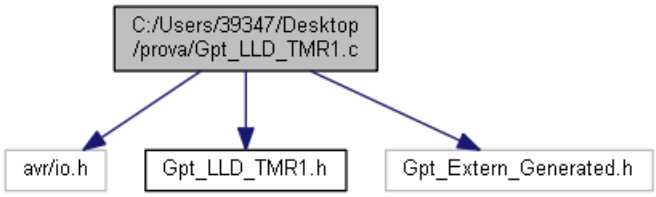
void Gpt_StopTimer_LLD_TMR0 (void)

Definition at line 140 of file Gpt_LLD_TMR0.c.

C:/Users/39347/Desktop/prova/Gpt_LLD_TMR1.c File Reference

```
#include <avr/io.h>
#include "Gpt_LLD_TMR1.h"
#include "Gpt_Extern_Generated.h"
```

Include dependency graph for Gpt_LLD_TMR1.c:



Macros

- #define SET_BIT_REGISTER(Reg_type, REGISTER, mask) { REGISTER |= (Reg_type)mask; }
- #define CLEAR_BIT_REGISTER(Reg_type, REGISTER, mask) { REGISTER &= (Reg_type)(~((0xFF)&(mask))); }

Functions

- void Gpt_Init_LLD_TMR1 ()
- void Gpt_DeInit_LLD_TMR1 (void)
- uint16_t Gpt_GetTimeElapsed_LLD_TMR1 (void)
- void Gpt_StartTimer_LLD_TMR1 (uint16_t value, uint8_t clockValue)
- void Gpt_StopTimer_LLD_TMR1 ()
- void Gpt_EnableNotification_LLD_TMR1 ()
- void Gpt_DisableNotification_LLD_TMR1 (void)
- uint8_t Gpt_CalculateClockSelect_TMR1 (uint8_t clockSource, uint16_t clockPrescaler)

Macro Definition Documentation

#define CLEAR_BIT_REGISTER(Reg_type, REGISTER, mask) { REGISTER &= (Reg_type)(~((0xFF)&(mask))); }

Definition at line 159 of file Gpt_LLD_TMR1.c.

#define SET_BIT_REGISTER(Reg_type, REGISTER, mask) { REGISTER |= (Reg_type)mask; }

Definition at line 158 of file Gpt_LLD_TMR1.c.

Function Documentation

uint8_t Gpt_CalculateClockSelect_TMR1 (uint8_t *clockSource*, uint16_t *clockPrescaler*)

Definition at line 235 of file Gpt_LLD_TMR1.c.

void Gpt_DeInit_LLD_TMR1 (void)

Definition at line 179 of file Gpt_LLD_TMR1.c.

void Gpt_DisableNotification_LLD_TMR1 (void)

Definition at line 227 of file Gpt_LLD_TMR1.c.

void Gpt_EnableNotification_LLD_TMR1 (void)

Definition at line 219 of file Gpt_LLD_TMR1.c.

uint16_t Gpt_GetTimeElapsed_LLD_TMR1 (void)

Definition at line 197 of file Gpt_LLD_TMR1.c.

void Gpt_Init_LLD_TMR1 (void)

Definition at line 161 of file Gpt_LLD_TMR1.c.

void Gpt_StartTimer_LLD_TMR1 (uint16_t *value*, uint8_t *clockValue*)

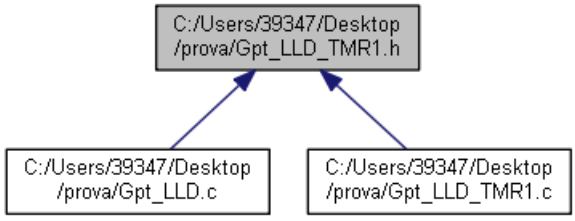
Definition at line 203 of file Gpt_LLD_TMR1.c.

void Gpt_StopTimer_LLD_TMR1 ()

Definition at line 213 of file Gpt_LLD_TMR1.c.

C:/Users/39347/Desktop/prova/Gpt_LLD_TMR1.h File Reference

This graph shows which files directly or indirectly include this file:



Enumerations

- enum type_GptClockSelect_TMR1 { TMR1_NO_CLK, TMR1_SYS_CLK_P0, TMR1_SYS_CLK_P8, TMR1_SYS_CLK_P64, TMR1_SYS_CLK_P256, TMR1_SYS_CLK_P1024 }

Functions

- void Gpt_Init_LLD_TMR1 (void)
- void Gpt_DeInit_LLD_TMR1 (void)
- uint16_t Gpt_GetTimeElapsed_LLD_TMR1 (void)
- void Gpt_StartTimer_LLD_TMR1 (uint16_t value, uint8_t clockValue)
- void Gpt_StopTimer_LLD_TMR1 ()
- void Gpt_EnableNotification_LLD_TMR1 (void)
- void Gpt_DisableNotification_LLD_TMR1 (void)
- uint8_t Gpt_CalculateClockSelect_TMR1 (uint8_t clockSource, uint16_t clockPrescaler)

Enumeration Type Documentation

enum type_GptClockSelect_TMR1

Enumerator:

TMR1_NO_CLK	
TMR1_SYS_CLK_P0	
TMR1_SYS_CLK_P8	
TMR1_SYS_CLK_P64	
TMR1_SYS_CLK_P256	
TMR1_SYS_CLK_P1024	

Definition at line 14 of file Gpt_LLD_TMR1.h.

Function Documentation

uint8_t Gpt_CalculateClockSelect_TMR1 (uint8_t *clockSource*, uint16_t *clockPrescaler*)

Definition at line 235 of file Gpt_LLD_TMR1.c.

void Gpt_DeInit_LLD_TMR1 (void)

Definition at line 179 of file Gpt_LLD_TMR1.c.

void Gpt_DisableNotification_LLD_TMR1 (void)

Definition at line 227 of file Gpt_LLD_TMR1.c.

void Gpt_EnableNotification_LLD_TMR1 (void)

Definition at line 219 of file Gpt_LLD_TMR1.c.

uint16_t Gpt_GetTimeElapsed_LLD_TMR1 (void)

Definition at line 197 of file Gpt_LLD_TMR1.c.

void Gpt_Init_LLD_TMR1 (void)

Definition at line 161 of file Gpt_LLD_TMR1.c.

void Gpt_StartTimer_LLD_TMR1 (uint16_t *value*, uint8_t *clockValue*)

Definition at line 203 of file Gpt_LLD_TMR1.c.

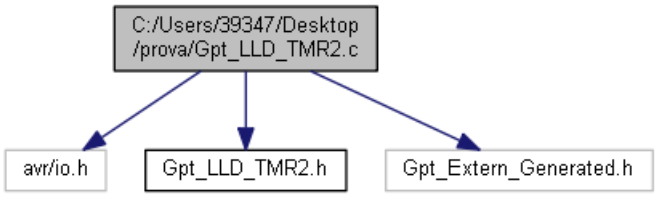
void Gpt_StopTimer_LLD_TMR1 ()

Definition at line 213 of file Gpt_LLD_TMR1.c.

C:/Users/39347/Desktop/prova/Gpt_LLD_TMR2.c File Reference

```
#include <avr/io.h>
#include "Gpt_LLD_TMR2.h"
#include "Gpt_Extern_Generated.h"
```

Include dependency graph for Gpt_LLD_TMR2.c:



Macros

- #define SET_BIT_REGISTER(Reg_type, REGISTER, mask) { REGISTER |= (Reg_type)mask; }
- #define CLEAR_BIT_REGISTER(Reg_type, REGISTER, mask) { REGISTER &= (Reg_type)(~((0xFF)&(mask))); }

Functions

- void Gpt_Init_LLD_TMR2 ()
- void Gpt_DeInit_LLD_TMR2 (void)
- uint8_t Gpt_GetTimeElapsed_LLD_TMR2 (void)
- void Gpt_StartTimer_LLD_TMR2 (uint32_t value, uint8_t clockValue)
- void Gpt_StopTimer_LLD_TMR2 ()
- void Gpt_EnableNotification_LLD_TMR2 ()
- void Gpt_DisableNotification_LLD_TMR2 (void)
- uint8_t Gpt_CalculateClockSelect_TMR2 (uint8_t clockSource, uint16_t clockPrescaler)

Macro Definition Documentation

#define CLEAR_BIT_REGISTER(Reg_type, REGISTER, mask) { REGISTER &= (Reg_type)(~((0xFF)&(mask))); }

Definition at line 348 of file Gpt_LLD_TMR2.c.

#define SET_BIT_REGISTER(Reg_type, REGISTER, mask) { REGISTER |= (Reg_type)mask; }

Definition at line 347 of file Gpt_LLD_TMR2.c.

Function Documentation

uint8_t Gpt_CalculateClockSelect_TMR2 (uint8_t *clockSource*, uint16_t *clockPrescaler*)

Definition at line 418 of file Gpt_LLD_TMR2.c.

void Gpt_DeInit_LLD_TMR2 (void)

Definition at line 366 of file Gpt_LLD_TMR2.c.

void Gpt_DisableNotification_LLD_TMR2 (void)

Definition at line 410 of file Gpt_LLD_TMR2.c.

void Gpt_EnableNotification_LLD_TMR2 (void)

Definition at line 402 of file Gpt_LLD_TMR2.c.

uint8_t Gpt_GetTimeElapsed_LLD_TMR2 (void)

Definition at line 382 of file Gpt_LLD_TMR2.c.

void Gpt_Init_LLD_TMR2 (void)

Definition at line 350 of file Gpt_LLD_TMR2.c.

void Gpt_StartTimer_LLD_TMR2 (uint32_t *value*, uint8_t *clockValue*)

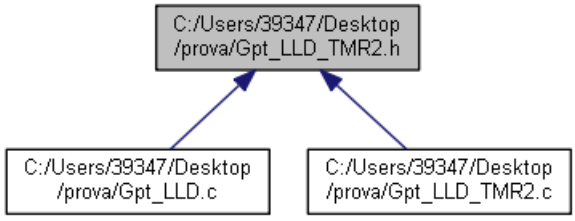
Definition at line 388 of file Gpt_LLD_TMR2.c.

void Gpt_StopTimer_LLD_TMR2 ()

Definition at line 396 of file Gpt_LLD_TMR2.c.

C:/Users/39347/Desktop/prova/Gpt_LLD_TMR2.h File Reference

This graph shows which files directly or indirectly include this file:



Enumerations

- enum type_GptClockSelectBit_TMR2 { TMR2_NO_CLK = 0, TMR2_SYS_CLK_P0 = 1, TMR2_SYS_CLK_P8 = 2, TMR2_SYS_CLK_P32 = 3, TMR2_SYS_CLK_P64 = 4, TMR2_SYS_CLK_P128 = 5, TMR2_SYS_CLK_P256 = 6, TMR2_SYS_CLK_P1024 = 7 }

Functions

- void Gpt_Init_LLD_TMR2 (void)
- void Gpt_DeInit_LLD_TMR2 (void)
- uint8_t Gpt_GetTimeElapsed_LLD_TMR2 (void)
- void Gpt_StartTimer_LLD_TMR2 (uint32_t value, uint8_t clockValue)
- void Gpt_StopTimer_LLD_TMR2 ()
- void Gpt_EnableNotification_LLD_TMR2 (void)
- void Gpt_DisableNotification_LLD_TMR2 (void)
- uint8_t Gpt_CalculateClockSelect_TMR2 (uint8_t clockSource, uint16_t clockPrescaler)

Enumeration Type Documentation

enum type_GptClockSelectBit_TMR2

Enumerator:

TMR2_NO_CLK	
TMR2_SYS_CLK_P0	
TMR2_SYS_CLK_P8	
TMR2_SYS_CLK_P32	
TMR2_SYS_CLK_P64	
TMR2_SYS_CLK_P128	
TMR2_SYS_CLK_P256	
TMR2_SYS_CLK_P1024	

Definition at line 27 of file Gpt_LLD_TMR2.h.

Function Documentation

uint8_t Gpt_CalculateClockSelect_TMR2 (uint8_t *clockSource*, uint16_t *clockPrescaler*)

Definition at line 418 of file Gpt_LLD_TMR2.c.

void Gpt_DeInit_LLD_TMR2 (void)

Definition at line 366 of file Gpt_LLD_TMR2.c.

void Gpt_DisableNotification_LLD_TMR2 (void)

Definition at line 410 of file Gpt_LLD_TMR2.c.

void Gpt_EnableNotification_LLD_TMR2 (void)

Definition at line 402 of file Gpt_LLD_TMR2.c.

uint8_t Gpt_GetTimeElapsed_LLD_TMR2 (void)

Definition at line 382 of file Gpt_LLD_TMR2.c.

void Gpt_Init_LLD_TMR2 (void)

Definition at line 350 of file Gpt_LLD_TMR2.c.

void Gpt_StartTimer_LLD_TMR2 (uint32_t *value*, uint8_t *clockValue*)

Definition at line 388 of file Gpt_LLD_TMR2.c.

void Gpt_StopTimer_LLD_TMR2 ()

Definition at line 396 of file Gpt_LLD_TMR2.c.

Index

INDEX