Blinkydocumentation

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Module Documentation

3.1 Blinky

Macros

- #define APPLICATION_VERSION "1.1.0"

Functions

- void LEDBlinkyRoutine ()
- static void BoardInit (void)
- int main ()

3.1.1 Detailed Description

3.1.2 Macro Definition Documentation

3.1.2.1 #define APPLICATION_VERSION "1.1.0"

Definition at line 80 of file main.c.

3.1.3 Function Documentation

3.1.3.1 static void BoardInit (void) [static]

Board Initialization & Configuration

Parameters

None	

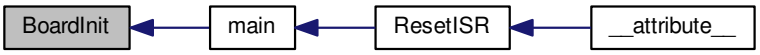
Returns

None

Definition at line 158 of file main.c.

Referenced by main().

Here is the caller graph for this function:



3.1.3.2 void LEDBlinkyRoutine ( )

Configures the pins as GPIOs and peroidically toggles the lines

Parameters

None	This function 1. Configures 3 lines connected to LEDs as GPIO 2. Sets up the GPIO pins as output 3. Periodically toggles each LED one by one by toggling the GPIO line

Returns

None

Definition at line 120 of file main.c.

Referenced by main().

Here is the caller graph for this function:

3.1.3.3 int main (void)

Main function

Parameters

none	This function 1. Invokes the LEDBlinkyTask

Returns

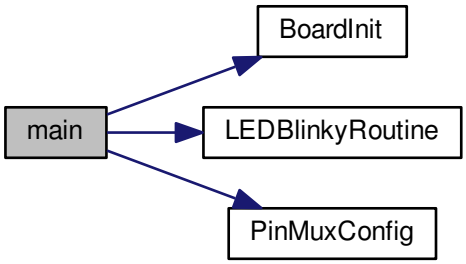
None.

Definition at line 194 of file main.c.

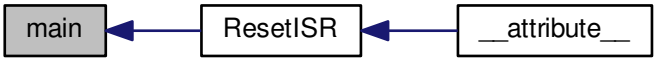
References BoardInit(), LEDBlinkyRoutine(), and PinMuxConfig().

Referenced by ResetISR().

Here is the call graph for this function:



Here is the caller graph for this function:

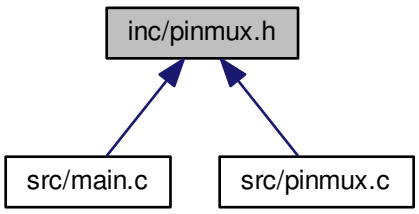


Chapter 4

File Documentation

4.1 inc/pinmux.h File Reference

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



Functions

- void PinMuxConfig (void)

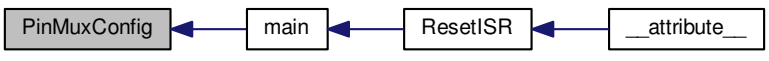
4.1.1 Function Documentation

4.1.1.1 void PinMuxConfig (void)

Definition at line 56 of file pinmux.c.

Referenced by main().

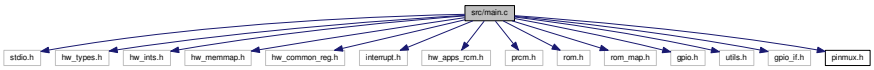
Here is the caller graph for this function:



4.2 src/main.c File Reference

```
#include <stdio.h>
#include "hw_types.h"
#include "hw_ints.h"
#include "hw_memmap.h"
#include "hw_common_reg.h"
#include "interrupt.h"
#include "hw_apps_rcm.h"
#include "prcm.h"
#include "rom.h"
#include "rom_map.h"
#include "gpio.h"
#include "utils.h"
#include "gpio_if.h"
#include "pinmux.h"
```

Include dependency graph for main.c:



Macros

- #define APPLICATION_VERSION "1.1.0"

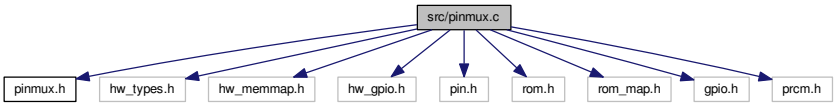
Functions

- void LEDBlinkyRoutine ()
- static void BoardInit (void)
- int main ()

4.3 src/pinmux.c File Reference

```
#include "pinmux.h"
#include "hw_types.h"
#include "hw_memmap.h"
#include "hw_gpio.h"
#include "pin.h"
#include "rom.h"
#include "rom_map.h"
#include "gpio.h"
#include "prcm.h"
```

Include dependency graph for pinmux.c:



Functions

- void PinMuxConfig (void)

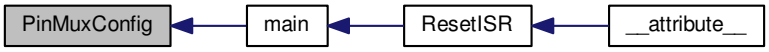
4.3.1 Function Documentation

4.3.1.1 void PinMuxConfig (void)

Definition at line 56 of file pinmux.c.

Referenced by main().

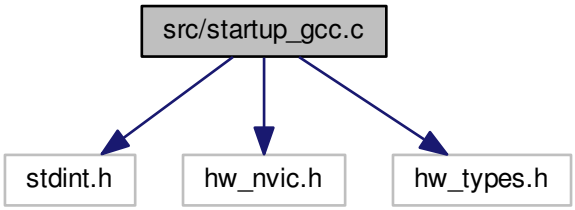
Here is the caller graph for this function:



4.4 src/startup_gcc.c File Reference

```
#include <stdint.h>
#include "hw_nvic.h"
#include "hw_types.h"
```

Include dependency graph for startup_gcc.c:



Functions

- void ResetISR (void)
- static void NmiSR (void)
- static void FaultISR (void)
- static void IntDefaultHandler (void)
- static void BusFaultHandler (void)
- void _c_int00 (void)
- void vPortSVCHandler (void)
- void xPortPendSVHandler (void)
- void xPortSysTickHandler (void)

- int main (void)
- __attribute__ ((section(".intvecs")))
- void * _sbrk (unsigned int incr)

Variables

- static char * heap_end = 0
- unsigned long _heap
- unsigned long _eheap
- static uint32_t pui32Stack [1024]
- uint32_t _etext
- uint32_t _data
- uint32_t _edata
- uint32_t _bss
- uint32_t _ebss
- uint32_t __init_data

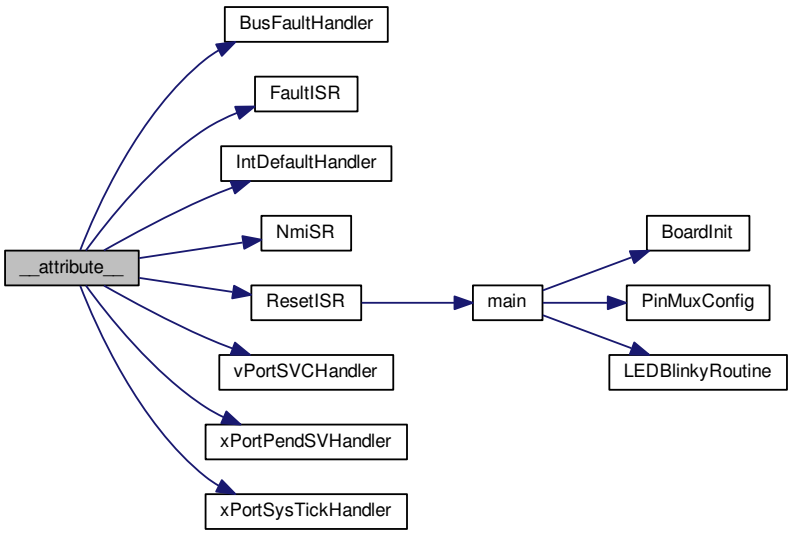
4.4.1 Function Documentation

4.4.1.1 __attribute__ ((section(".intvecs")))

Definition at line 94 of file startup_gcc.c.

References __init_data, _bss, _data, _ebss, _edata, _etext, BusFaultHandler(), FaultISR(), IntDefaultHandler(), NmiSR(), pui32Stack, ResetISR(), vPortSVCHandler(), xPortPendSVHandler(), and xPortSysTickHandler().

Here is the call graph for this function:



4.4.1.2 void _c_int00 (void)

4.4.1.3 void* _sbrk (unsigned int *incr*)

Definition at line 325 of file startup_gcc.c.

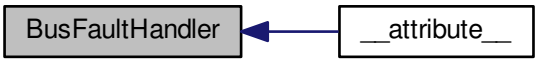
References _eheap, _heap, and heap_end.

4.4.1.4 static void BusFaultHandler (void) [static]

Definition at line 291 of file startup_gcc.c.

Referenced by __attribute__().

Here is the caller graph for this function:

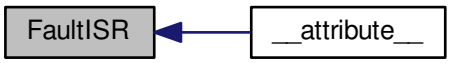


4.4.1.5 static void FaultISR (void) [static]

Definition at line 272 of file startup_gcc.c.

Referenced by __attribute__().

Here is the caller graph for this function:

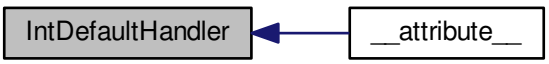


4.4.1.6 static void IntDefaultHandler (void) [static]

Definition at line 309 of file startup_gcc.c.

Referenced by __attribute__().

Here is the caller graph for this function:

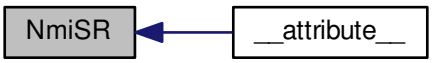


4.4.1.7 static void NmiSR (void) [static]

Definition at line 254 of file startup_gcc.c.

Referenced by __attribute__().

Here is the caller graph for this function:



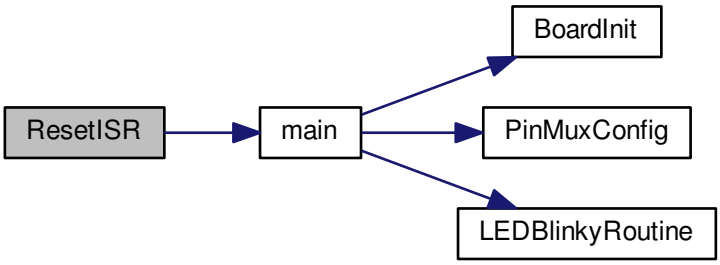
4.4.1.8 void ResetISR (void)

Definition at line 214 of file startup_gcc.c.

References __init_data, _edata, and main().

Referenced by __attribute__().

Here is the call graph for this function:

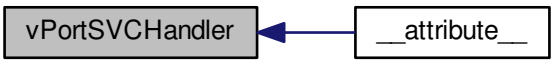


Here is the caller graph for this function:

4.4.1.9 void vPortSVCHandler (void)

Referenced by __attribute__().

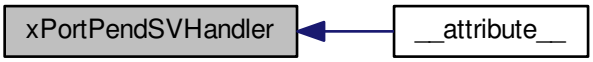
Here is the caller graph for this function:



4.4.1.10 void xPortPendSVHandler (void)

Referenced by __attribute__().

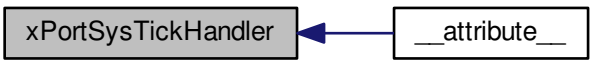
Here is the caller graph for this function:



4.4.1.11 void xPortSysTickHandler (void)

Referenced by __attribute__().

Here is the caller graph for this function:



4.4.2 Variable Documentation

4.4.2.1 uint32_t __init_data

Referenced by __attribute__(), and ResetISR().

4.4.2.2 uint32_t _bss

Referenced by __attribute__().

4.4.2.3 uint32_t _data

Referenced by __attribute__().

4.4.2.4 uint32_t _ebss

Referenced by __attribute__().

4.4.2.5 uint32_t _edata

Referenced by __attribute__(), and ResetISR().

4.4.2.6 unsigned long _eheap

Referenced by _sbrk().

4.4.2.7 uint32_t _etext

Referenced by __attribute__().

4.4.2.8 unsigned long _heap

Referenced by _sbrk().

4.4.2.9 char* heap_end = 0 [static]

Definition at line 48 of file startup_gcc.c.

Referenced by _sbrk().

4.4.2.10 uint32_t pui32Stack[1024] [static]

Definition at line 86 of file startup_gcc.c.

Referenced by __attribute__().

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