

gpio\_led\_output.c

```

1 /*
2  * Copyright (c) 2015, Freescale Semiconductor, Inc.
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4  * All rights reserved.
5  *
6  * SPDX-License-Identifier: BSD-3-Clause
7  */
8
9 #include "board.h"
10 #include "fsl_debug_console.h"
11 #include "fsl_gpio.h"
12
13 #include "pin_mux.h"
14 #include "clock_config.h"
15 #include "cr_section_macros.h"
16 /*****
17  * Definitions
18  *****/
19 #define EXAMPLE_LED_GPIO BOARD_USER_LED_GPIO
20 #define EXAMPLE_LED_GPIO_PIN BOARD_USER_LED_GPIO_PIN
21 #define EXAMPLE_DELAY_COUNT 8000000
22
23
24 /*****
25  * Prototypes
26  *****/
27 /*!
28  * @brief delay a while.
29  */
30 void delay(void);
31 __DATA(BOARD_SDRAM) int vect1[500] = {5};
32 /*****
33  * Variables
34  *****/
35 /* The PIN status */
36 volatile bool g_pinSet = false;
37 /*****
38  * Code
39  *****/
40 void delay(void)
41 {
42     volatile uint32_t i = 0;
43     for (i = 0; i < EXAMPLE_DELAY_COUNT; ++i)
44     {
45         __asm("NOP"); /* delay */
46     }
47 }
48
49 /*!
50  * @brief Main function
51  */
52 int main(void)
53 {
54     /* Define the init structure for the output LED pin*/
55     gpio_pin_config_t led_config = {kGPIO_DigitalOutput, 0, kGPIO_NoIntmode};
56
57     /* Board pin, clock, debug console init */
58     BOARD_ConfigMPU();
59     BOARD_InitPins();
60     BOARD_BootClockRUN();
61     BOARD_InitDebugConsole();
62     vect1[0] = 120;

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63
64  /* Print a note to terminal. */
65  PRINTF("\r\n GPIO Driver example\r\n");
66  PRINTF("\r\n The LED is blinking.\r\n");
67
68  /* Init output LED GPIO. */
69  GPIO_PinInit(EXAMPLE_LED_GPIO, EXAMPLE_LED_GPIO_PIN, &led_config);
70
71  while (1)
72  {
73      delay();
74  #if (defined(FSL_FEATURE_IGPIO_HAS_DR_TOGGLE) && (FSL_FEATURE_IGPIO_HAS_DR_TOGGLE == 1)) &&
    0
75      GPIO_PortToggle(base, mask)EXAMPLE_LED_GPIO, 1u << EXAMPLE_LED_GPIO_PIN);
76  #else
77      if (g_pinSet)
78      {
79          GPIO_PinWrite(EXAMPLE_LED_GPIO, EXAMPLE_LED_GPIO_PIN, 0U);
80          g_pinSet = false;
81      }
82      else
83      {
84          GPIO_PinWrite(EXAMPLE_LED_GPIO, EXAMPLE_LED_GPIO_PIN, 1U);
85          g_pinSet = true;
86      }
87  #endif /* FSL_FEATURE_IGPIO_HAS_DR_TOGGLE */
88  }
89 }
90
```