## GPIOreg.inc

```
2
3
                                    GPIOreg.inc
   ;
                              GPIO Register Constants
5
                                   Include File
6
7
   8
9
   ; This file contains the constants for the GPIO control registers for the TI
10
   ; CC2652 microcontroller.
11
12
   ; References: CC13×2, CC26×2 SimpleLink™ Wireless MCU Technical Reference Manual
                https://www.ti.com/lit/ug/swcu185g/swcu185g.pdf?ts=1761608306803
13
14
15
   ; Revision History:
16
        2/17/22 Glen George
                                 initial revision
   ;
17
        11/05/23 Glen George
                                 updated style
18
        10/28/25 Steven Lei
                                 add references to CC2652 Reference manual
19
20
   ; The MCU GPIO allows I/O (DIO) pins to be read/written. The pins must first be
21
   ; configured to GPIO mode (see IOCreg.inc). The pin values can then be
22
23
   ; read as input or written to as output through the MCU_GPIO_MAP registers.
24
       sec 13.6, pg 1072
25
26
27
   ; Base address of the registers
28
       table 3-1, pg 319
29
   GPIO_BASE_ADDR
                            0×40022000
                                         ;General Purpose I/O registers
                     .equ
30
31
32
   ; GPIJO register offsets in memmory map
33
       sec 13.10.2, pg 1083
34
   GPIO_DOUT3_0_OFF
                     .equ
                            0×0000
                                         ;data out bits 0 to 3
35
   GPIO_DOUT7_4_OFF
                     .equ
                                         ;data out bits 4 to 7
                            0×0004
                                         ;data out bits 8 to 11
36
   GPIO DOUT11 8 OFF
                            0×0008
                     .equ
37
                                         ;data out bits 12 to 15
   GPIO_DOUT15_12_OFF .equ
                            0×000C
38
   GPIO_DOUT19_16_OFF .equ
                            0×0010
                                         ;data out bits 16 to 19
39
   GPIO_DOUT23_20_OFF .equ
                                         ;data out bits 20 to 23
                            0×0014
                                         ;data out bits 24 to 27
40
   GPIO_DOUT27_24_OFF .equ
                            0×0018
41
   GPIO_DOUT31_28_OFF .equ
                            0×001C
                                         ;data out bits 28 to 31
                                         ;data out bits 0 to 31
42
   GPIO_DOUT31_0_OFF
                     .equ
                            0×0080
43
   GPIO_DSET31_0_OFF
                            0×0090
                                         ;set data out bits 0 to 31
                     .equ
                                         ;clear data out bits 0 to 31
44
   GPIO_DCLR31_0_OFF
                            0×00A0
                     .equ
                                         ;toggle data out bits 0 to 31
45
   GPIO_DTGL31_0_OFF
                            0×00B0
                     .equ
   GPIO_DIN31_0_OFF
                                         ;data in bits 0 to 31
46
                     .equ
                            0×00C0
47
   GPIO_DOE31_0_OFF
                                         ;data output enable bits 0 to 31
                     .equ
                            0×00D0
```

GPIOreg.inc

48 GPIO\_EVFLG31\_0\_0FF .equ  $0\times00E0$  ; event flags for data bits 0 to 31

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10/30/25, 4:31 PM