```
* HEIG-VD
 2
 3
      * Haute Ecole d'Ingenerie et de Gestion du Canton de Vaud
 4
      * School of Business and Engineering in Canton de Vaud
      * REDS Institute
 6
 7
      * Reconfigurable Embedded Digital Systems
 8
      *****************
 9
      * File
                         : defines.h
: Sébastien Masle
10
11
      * Author
12
                             : 16.02.2018
      * Date
13
14
      * Context
                    : SOCF class
15
16
      ***************************
17
      * Brief: some definitions
18
19
      * Modifications :
20
      * Ver Date Engineer Comments
21
     * 0.0 16.02.2018 SMS Initial version.

* 1.1 06.05.20 Isaia Spinelli : Refactor

* 1.2 08.05.20 Isaia Spinelli : Ajout du paramètre edge des irq
22
23
24
25
26
27
    #include "exceptions.h"
28
29
    // Déclaration de fonction
30
    void pushbutton ISR(void);
31
   // Defines
32
33
34 #define EDGE_TRIGGERED
35 #define LEVEL_SENSITIVE
                                         0x1
                                         0 \times 0
36 #define CPU0
37 #define ENABL
                                         0x01  // bit-mask; bit 0 represents cpu0
                ENABLE
                                          0x1
38
39 #define USER_MODE
40 #define FIQ_MODE
41 #define IRQ_MODE
42 #define SVC_MODE
                                        0b10000
0b10001
                                         0b10010
                                         0b10011
43 #define ABORT_MODE
44 #define UNDEF_MODE
45 #define SYS_MODE
                                         0b10111
                                         0b11011
                                         0b11111
46
47 #define INT_ENABLE
48 #define INT_DISABLE
                                         0b01000000
                                          0b11000000
49
   // Valeur des keys
50
   #define KEY0 0x01
51
52
   #define KEY1 0x02
53 #define KEY2 0x04
54 #define KEY3 0x08
55
56 // Typedef
57
    typedef volatile unsigned char vcint;
58
     typedef volatile unsigned short vsint;
     typedef volatile unsigned int vuint;
59
```

```
61
  // Adresses
 62
63
64
65
69
  #define AXI REG TEST
70
                  *(vuint *)(AXI LIGHT BASE ADDR + 0x4)
71
72
  #define AXI LEDS
                  *(vuint *)(AXI LIGHT BASE ADDR + 0x100)
73
74
  // Lecture de la source d'int. + acquitement
75
  76
77 // 0 = interruption non masquée (défaut)
78
  79 // 0 = interruption flanc descendant (défaut)
80
  #define AXI INT EDGE *(vuint *)(AXI LIGHT BASE ADDR + 0x20C)
81
82
                  *(vuint *)(AXI LIGHT BASE ADDR + 0x300)
83 #define AXI SWITCHES
84
                  *(vuint *)(AXI LIGHT BASE ADDR + 0x400)
85 #define AXI HEX0
91
```