**Listing 1. Stworzony w oparciu o funkcje SPL kod pliku main.c**

#include "stm8s.h"

void delay**(**unsigned long int how\_long**);**

main**()**

**{**

//delay to avoid blocking of SWIM

delay**(**100000**);**

//configuration of unused pins

GPIOA**->**DDR **|=** GPIO\_PIN\_2**;**

GPIOB**->**DDR **|=** GPIO\_PIN\_0 **|** GPIO\_PIN\_1 **|** GPIO\_PIN\_2 **|** GPIO\_PIN\_3 **|** GPIO\_PIN\_6 **|** GPIO\_PIN\_7**;**

GPIOC**->**DDR **|=** GPIO\_PIN\_1 **|** GPIO\_PIN\_2 **|** GPIO\_PIN\_7**;**

GPIOD**->**DDR **|=** GPIO\_PIN\_0 **|** GPIO\_PIN\_2 **|** GPIO\_PIN\_4 **|** GPIO\_PIN\_7**;**

GPIOE**->**DDR **|=** GPIO\_PIN\_5**;**

GPIOF**->**DDR **|=** GPIO\_PIN\_4**;**

//configuration of used pins: PC3 as input (button), PA3 as output (LED)

GPIO\_Init**(**GPIOC**,** GPIO\_PIN\_3**,** GPIO\_MODE\_IN\_FL\_NO\_IT**);**

GPIO\_Init**(**GPIOA**,** GPIO\_PIN\_3**,** GPIO\_MODE\_OUT\_PP\_LOW\_FAST**);**

**while** **(**1**)**

**{**

**if(**GPIO\_ReadInputPin**(**GPIOC**,** GPIO\_PIN\_3**)** **==** FALSE**)**

**{**

GPIO\_WriteHigh**(**GPIOA**,** GPIO\_PIN\_3**);**

delay**(**2000**);**

GPIO\_WriteLow**(**GPIOA**,** GPIO\_PIN\_3**);**

delay**(**2000**);**

**}**

**}**

**}**

void delay**(**unsigned long int how\_long**)**

**{**

unsigned long i**;**

**for** **(**i **=** 0**;** i**<** how\_long**;** i**++)**

**{**

**}**

**}**

**Listing 2. Przykładowa aplikacja sterująca EXTI**

#include "stm8s.h"

unsigned char interrupt **=** 0**;**

void delay**(**unsigned long int how\_long**);**

main**()**

**{**

//delay to avoid irreversible blocking of SWIM

delay**(**100000**);**

//configuration of unused pins

GPIOA**->**DDR **|=** GPIO\_PIN\_2**;**

GPIOB**->**DDR **|=** GPIO\_PIN\_0 **|** GPIO\_PIN\_1 **|** GPIO\_PIN\_2 **|** GPIO\_PIN\_3 **|** GPIO\_PIN\_6 **|** GPIO\_PIN\_7**;**

GPIOC**->**DDR **|=** GPIO\_PIN\_1 **|** GPIO\_PIN\_2 **|** GPIO\_PIN\_7**;**

GPIOD**->**DDR **|=** GPIO\_PIN\_0 **|** GPIO\_PIN\_2 **|** GPIO\_PIN\_4 **|** GPIO\_PIN\_7**;**

GPIOE**->**DDR **|=** GPIO\_PIN\_5**;**

GPIOF**->**DDR **|=** GPIO\_PIN\_4**;**

//configuration of used pins: PC3 as input (button), PA3 as output (LED)

GPIO\_Init**(**GPIOC**,** GPIO\_PIN\_3**,** GPIO\_MODE\_IN\_FL\_IT**);**

GPIO\_Init**(**GPIOA**,** GPIO\_PIN\_3**,** GPIO\_MODE\_OUT\_PP\_LOW\_FAST**);**

EXTI\_SetExtIntSensitivity**(**EXTI\_PORT\_GPIOC**,** EXTI\_SENSITIVITY\_RISE\_ONLY**);**

enableInterrupts**();**

**while** **(**1**)**

**{**

**if(**interrupt **==** 1**)**

**{**

GPIO\_WriteHigh**(**GPIOA**,** GPIO\_PIN\_3**);**

delay**(**2000**);**

GPIO\_WriteLow**(**GPIOA**,** GPIO\_PIN\_3**);**

delay**(**2000**);**

interrupt **=** 0**;**

**}**

**}**

**}**

void delay**(**unsigned long int how\_long**)**

**{**

unsigned long i**;**

**for** **(**i **=** 0**;** i**<** how\_long**;** i**++)**

**{**

**}**

**}**

**Listing 3. Procedura obsługi przerwania**

/\* Private variables ---------------------------------------------------------\*/

extern unsigned char interrupt**;**

…

/\*\*

\* **@brief** External Interrupt PORTC Interrupt routine

\* **@param** None

\* **@retval** None

\*/

INTERRUPT\_HANDLER**(**EXTI\_PORTC\_IRQHandler**,** 5**)**

**{**

interrupt **=** 1**;**

**}**