

```
1  /*
2   * SPI.c
3   *
4   * Created: 1/28/2026 9:55:15 PM
5   * Author : Eliph
6   */
7
8  #define F_CPU 1000000
9  #include <util/delay.h>
10 #include <avr/io.h>
11 #include <stdint.h>
12 #include <avr/interrupt.h>
13 #include "SPIC/SPIC.h"
14 #include "USART/USART.h"
15
16 //GLOBAL:
17 uint8_t NT = 0x00;
18 uint8_t ADC_PC0 = 0x00;
19
20 void SETUP(void){
21     cli();
22     //OUTPUT LEDs:
23     DDRD = 0xFF;
24
25     //SPI: MASTER.
26     SPI_SETUP(SPI_MASTER, SPI_MODE0, SPI_MSB, 128);
27
28     sei();
29 }
30
31 int main(void)
32 {
33     //SETUP
34     SETUP();
35
36     while (1)
37     {
38         PORTB &= ~(1<<PORTB2); // Select slave
39         SPI_MST_Transmit('S');
40         NT = SPDR;
41         SPI_MST_Transmit(0x00);
42         //RECEIVE:
43         ADC_PC0 = SPDR;
44         PORTB |= (1<<PORTB2); // Deselect slave
45
46         //POST:
47         PORTD = ADC_PC0;
48
49         //WAIT:
```

```
50     _delay_ms(5000);  
51  
52     }  
53 }  
54  
55
```