

```
/*
 * "SWITCH.C":
 * Implementation file for the STK500 SWITCH PORT driver.*
 * The SWITCHES are connected to the PA pins.
 * Henning Hargaard, 27/9 2011
 */
#include <avr/io.h>

#define MAX_SWITCH_NR 7

// Klargør switch-porten
void initSwitchPort()
{
    // Switch-port = All inputs
    DDRA = 0;
}

// Læser alle switches samtidigt
unsigned char switchStatus()
{
    return (~PINA);
}

// Returnerer TRUE, hvis switchen med nummeret
// "switch_nr" er aktiveret - ellers returneres FALSE
unsigned char switchOn(unsigned char switch_nr)
{
    unsigned char mask;
    if (switch_nr <= MAX_SWITCH_NR)
    {
        mask = 0b00000001 << switch_nr;
        return (~PINA & mask);
    }
    else
        return 0;
}
```