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*****  
* "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 (~PINB);  
}  
  
// 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 (~PINB & mask);  
    }  
    else  
        return 0;  
}
```