

ORIGINALPROGRAMM von Piezosystem Jeyg

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#include <bios.h>
#include <conio.h>
#include <stdio.h>
#include <stdlib.h>

#define COM 1
#define start_byte 0xff
#define rech_betr 0x80
#define hand_betr 0x40
int main(void)
{
    int status, key, outs1, outs1h, outs1l, outs2, outs2h, outs2l, outs3, outs3h;
    char i;
    float kwertw, kwerts, spank1, spank2, spank3, diffs1, diffs2, diffs3;
    char eingsp[8], *endptr;
    char *p;
    double span;
    eingsp[0] = 7;
    span=0; spank1=0; spank2=0; spank3=0; diffs1=0;
    diffs2=0; diffs3=0; kwertw=0.046875, kwerts=0.0390625, ende=0;
    bioscom(0, 0xe7, COM); /*COM Schnittstelle einstellen*/

    status = bioscom(1, start_byte, COM); /*Startbyte fr Netzteilschnst.*/
    status = bioscom(1, rech_betr, COM); /*Umschaltung Kanal 1 */
    status = bioscom(1, 0x00, COM);
    status = bioscom(1, rech_betr, COM); /*Umschaltung Kanal 2 */
    status = bioscom(1, 0x00, COM);
    status = bioscom(1, rech_betr, COM); /*Umschaltung Kanal 3 */
    status = bioscom(1, 0x00, COM);

    /***** - Men ausgeben - *****/

    clrscr();
    cprintf("F1 = Eingabe F2 = Ausgabe F3 = Spannung +/- ESC = Programmende");
    gotoxy(10, 5);
    cprintf("Programm zur Ansteuerung des Netzteils 150/S");
    gotoxy(5, 8);
    cprintf("Kanal 1");
    gotoxy(7, 9);
    cprintf("Weg in[Ìm] : ");
    gotoxy(7, 10);
    cprintf("Wegdiff. : ");
    gotoxy(5, 12);
    cprintf("Kanal 2");
    gotoxy(7, 13);
    cprintf("Spannung : ");
    gotoxy(7, 14);
    cprintf("Spannungsdiff.: ");
    gotoxy(5, 16);

    /*****Eingabe der Spannungswerte*****/
    while(ende==0)
    {
        _setcursortype(_NOCURSOR);
        gotoxy(10, 23);
        printf("Bitte die gewnschte Funktion auswahlen");
        key=bioskey(0) ;
        switch(key)
        {
            case 283: ende=1;break;
            /**Kanal1**/
            case 15104:{
                gotoxy(10, 23);
                printf("F1 Eingabe ");
            }
        }
    }
}
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gotoxy(23,9);
_setcursortype (_NORMALCURSOR);
p = cgets(eingsp);
span = strtod(p, &endptr);
while((span <0) || (span>180))
{
gotoxy(23,9);
cprintf("%6.2f",spank1);
gotoxy(23,9);
p = cgets(eingsp);
span = strtod(p, &endptr);
};
spank1=span;
gotoxy(23,9);
cprintf("%6.2f",spank1);
gotoxy(23,10);

p = cgets(eingsp);
span = strtod(p, &endptr);
while((span <-10) || (span>150))
{
gotoxy(23,10);
cprintf("%6.2f",diffs1);
gotoxy(23,10);
p = cgets(eingsp);
span = strtod(p, &endptr);
};
diffs1=span;
gotoxy(23,10);
cprintf("%6.2f",diffs1);
gotoxy(23,13);

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/****Kanal 2****/
p = cgets(eingsp);
span = strtod(p, &endptr);
while((span <-10) || (span>150))
{
gotoxy(23,13);
cprintf("%6.2f",spank3);
gotoxy(23,13);
p = cgets(eingsp);
span = strtod(p, &endptr);
};
spank3=span;
gotoxy(23,13);
cprintf("%6.2f",spank3);
gotoxy(23,14);

p = cgets(eingsp);
span = strtod(p, &endptr);
while((span <-10) || (span>150))
{
gotoxy(23,14);
cprintf("%6.2f",diffs3);
gotoxy(23,14);
p = cgets(eingsp);
span = strtod(p, &endptr);
};
diffs3=span;
gotoxy(23,14);
cprintf("%6.2f",diffs3);
};break;
case 15360:{

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gotoxy(10,23);
printf("F2 Ausgabe                                     ");
outs1=(spank1/kwertw)+255;
outs1h=(outs1 >> 8);
outs1l=(outs1 & 0x00ff);
//outs2=((spank2+10)/kwerts)-1;
//outs2h=(outs2 >> 8);
//outs2l=(outs2 & 0x00ff);
outs3=((spank3+10)/kwerts)-1;
outs3h=(outs3 >> 8);
outs3l=(outs3 & 0x00ff);
status = bioscom(1, start_byte, COM); /*Startbyte fr NetzteilSch
status = bioscom(1, outs1h, COM); /*Ausgabe Kanal 1 */
status = bioscom(1, outs1l, COM);
status = bioscom(1, 0x00, COM); /*Ausgabe Kanal 2 */
status = bioscom(1, 0x00, COM);
status = bioscom(1, outs3h, COM); /*Ausgabe Kanal 3 */
status = bioscom(1, outs3l, COM);
};break;
case 15616:{
key=bioskey(0) ;
//if(key==18432)
// spank1=spank1+
outs1=((spank1+10)/kwertw)-1;
outs1h=(outs1 >> 8);
outs1l=(outs1 & 0x00ff);
outs2=(spank2+10)/kwerts;
outs2h=(outs2 >> 8);
outs2l=(outs2 & 0x00ff);
outs3=(spank3+10)/kwerts;
outs3h=(outs3 >> 8);
outs3l=(outs3 & 0x00ff);
status = bioscom(1, start_byte, COM); /*Startbyte fr NetzteilSch
status = bioscom(1, outs1h, COM); /*Ausgabe Kanal 1 */
status = bioscom(1, outs1l, COM);
status = bioscom(1, outs2h, COM); /*Ausgabe Kanal 2 */
status = bioscom(1, outs2l, COM);
status = bioscom(1, outs3h, COM); /*Ausgabe Kanal 3 */
status = bioscom(1, outs3l, COM);
};break;
}
status = bioscom(1, start_byte, COM); /*Startbyte fr NetzteilSchnst.*/
status = bioscom(1, hand_betr, COM); /*Umschaltung Kanal 1 */
status = bioscom(1, 0x00, COM);
status = bioscom(1, hand_betr, COM); /*Umschaltung Kanal 2 */
status = bioscom(1, 0x00, COM);
status = bioscom(1, hand_betr, COM); /*Umschaltung Kanal 3 */
status = bioscom(1, 0x00, COM);
}

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