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/*****
Project : M1-162
Version : 1.0
Date : 2004-1-20
Author : dhj-book4
Company : TC-TECH
Chip type : ATmega162V
Program type : Application
Clock frequency : 7.372800 MHz
Memory model : Small
External SRAM size : 0
Data Stack size : 256
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#include <mega162.h>
#include "m1_162.h"

// External Interrupt 0 service routine
interrupt [EXT_INT0] void ext_int0_isr(void)
{
    if (bDebugFlag==0) return;
    bDebugFlag=2; //1:no button 2:button press用于快速变换图片
    delay_ms(10);
    bCurPgIdx++;
    if (bCurPgIdx<bBeginPgIdx) bCurPgIdx=bBeginPgIdx;
    if (bCurPgIdx>bEndPgIdx) bCurPgIdx=bBeginPgIdx;
    putchar('D');
}

// USART0 Receiver interrupt service routine
// 启动新的中断允许之前,要先执行FreeUart0();
interrupt [USART0_RXC] void uart0_rx_isr(void)
{
    char bstatus;
    BYTE bChar,bi;

    bChar=UDR0;
    Buf0[Uart0.wCurWrIdx]=bChar; //读取字符
    STOP_T0();
    if (Uart0.bRunState==FINISHED) return;

    if (Uart0.wCurWrIdx==0) { //起始字符
        if (bChar !=0x24) return; // 0x24:PC-MX起始字符
        bCurChk=0; //从第一个字节开始累加校验
    };

    if ( (Uart0.wCurWrIdx>6) && (Buf0[2] <=4 ) &&
        (Uart0.wCurWrIdx == (((WORD)Buf0[3])<<8)+5+Buf0[4]) ) { //帧结束条件
        bstatus=0x30;
        if (bCurChk !=bChar) bstatus=0x31; //累加和校验

        if (bGroup==0) bGroup=1;
        bi=(Buf0[1]/bGroup)*bGroup;
        if ((Buf0[1] == 0) ||
            ((Buf0[1]>=bi) && (Buf0[1]<(bi+bGroup)) ) ) Buf0[1]= bM1Addr;

        if (Buf0[1] != bM1Addr ) bstatus=0x32; //地址不符

        if (bstatus>0x30) {
            putchar1(0x13); //error!
            FreeUart0();
        } else {
            Uart0.bRunState=FINISHED;
        };
    };
    return;
};
    bCurChk=bCurChk+bChar;
    START_T0_2ms();
    Uart0.bRunState=RECEIVING;
    Uart0.wCurWrIdx++; //指针+1
}

interrupt [USART1_RXC] void uart1_rx_isr(void)
{
}

interrupt [TIM0_OVF] void timer0_ovf_isr(void)
{
    TCNT0 = T0_2ms;
    wT0Cnt++;
}

interrupt [TIM2_OVF] void timer2_ovf_isr(void)
{
}

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    TCNT2 = T0_2ms;
    wT2Cnt++;
}

interrupt [TIM1_OVF] void timer1_ovf_isr(void)
{
    START_T1_200ms();
    PORTE.2=!PINE.2; //在Atmega162 PIN-29 输出一个400ms的测试方波
    wT1Cnt++;
}
```