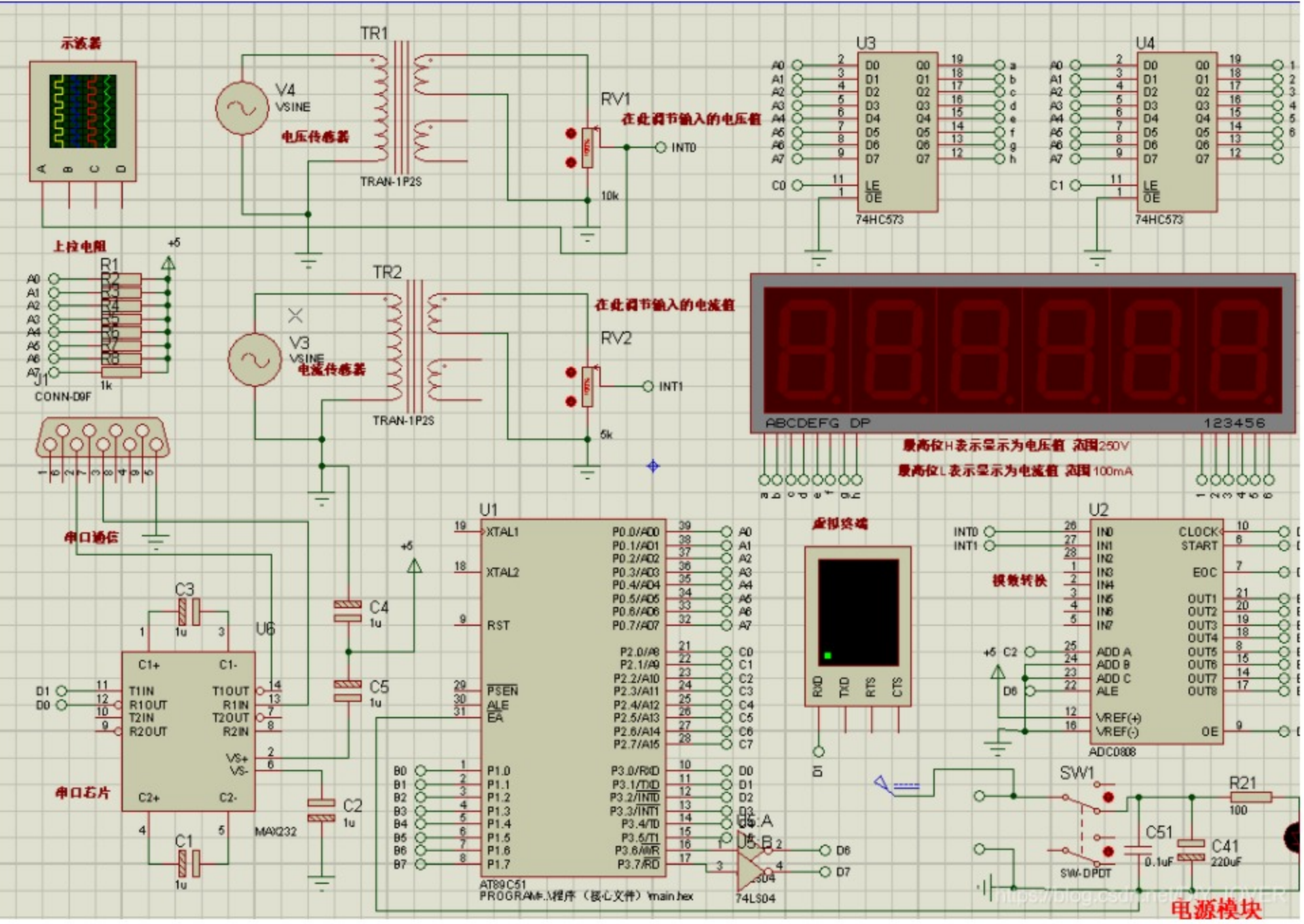


实现的功能：实时测量交流电的电流和电压值，显示在数码管和虚拟终端上。



```
1 #include <reg51.h>
2 #include <math.h>
3 #define uchar unsigned char
4 #define uint unsigned int
5 /*****六位七段共阴极数码显示管*****/
6 uchar code dispbitcode[] = { 0xdf, 0xef, 0xf7, 0xfb, 0xfd, 0xfe };
7 uchar code dispcode[] = { 0x3f, 0x06, 0x5b, 0x4f, 0x66, 0x6d, 0x7d, 0x07, 0x7f, 0x6f, 0x00, 0x76, 0x38 };
8 uchar dispbuf[8] = { 0, 0, 0, 0, 0, 0, 0, 0 };
9 void caiji();
10
11
12 void uart();
13
14
15 uint temp, temp1, temp2;
16 float getdata1, getdata2, max1, max2;
17 uint w; /* 电压值, 电流值切换显示所需变量 */
18 uchar num = 0;
19 sbit dula = P2 ^ 0;
20 sbit wela = P2 ^ 1;
21 sbit vi = P2 ^ 2;
22 sbit xuan = P2 ^ 3;
23 sbit ST = P3 ^ 6;
24 sbit OE = P3 ^ 7;
25 sbit EOC = P3 ^ 4;
26 sbit clock = P3 ^ 2;
27 /*****主函数*****/
28 void main()
29 {
30     xuan = 0;
31     max1 = 0;
32     max2 = 0;
33     w = 0;
34     SCON = 0x80; /* 串行口初始化为方式2 */
35     PCON = 0x00;
36     EA = 1;
37     ES = 1;
38     ET0 = 1;
39     ET1 = 1;
40     TMOD = 0x11;
41     TH0 = (65535 - 10) / 256; /* adc0809时钟 */
42     TL0 = (65535 - 10) % 256;
43     TH1 = (65535 - 10000) / 256; /* 定时中断扫描时间 */
44     TL1 = (65535 - 10000) % 256;
45     TR0 = 1;
46     TR1 = 1;
47     while ( 1 )
48     {
49         caiji();
50         uart();
51     }
52 }
53
54
55 /*****电压, 电流传感器的数据采集*****/
56 void caiji()
57 {
58     uchar i, j;
59     /*电压传感器数据采集*/
60     for ( j = 0; j < 10; j++ )
```

- 程序 (核心文件)
- 仿真 (核心文件)
- 开发资料
- 软件教程
- 注意事项
- 彩色原理图.pdf
- 仿真原理图.pdf
- 演示视频.mp4
- 元器件清单.CSV