```
    MOV cx,0ffffh
l1:dec cx
cmp cx,0
jnz l1                          ;延时



                                ;state2   33,37,33, 37,35, 35

            MOV AL,33h
        OUT PortOut,AL
    MOV cx,0ffffh
l2:dec cx
cmp cx,0
jnz l2                          ;延时
MOV AL,37h
        OUT PortOut,AL
    MOV cx,0ffffh
l3:dec cx
cmp cx,0
jnz l3                          ;延时
MOV AL,33h
        OUT PortOut,AL
    MOV cx,0ffffh
l4:dec cx
cmp cx,0
jnz l4                          ;延时
MOV AL,37h
        OUT PortOut,AL
    MOV cx,0ffffh
l5:dec cx
```

```
    .MODEL  SMALL
    .DATA
    .STACK 64
    .CODE
PortIn  EQU     90h         ;定义输入端口号
PortOut EQU     0A0h        ;定义输出端口号
main proc far
Again:IN  AL,PortIn              ;读取开关量状态
    NOT AL                          ;取反
    OUT PortOut,AL              ;送显示
    JMP Again                   ;跳转循环执行
main endp
END     main                            ;指示汇编程序结束编译
```