延时

A8255 EQU 0600H

B8255 EQU 0602H

C8255 EQU 0604H

CON8255 EQU 0606H

A0809 EQU 0640H

B0809 EQU 0642H

CODE SEGMENT

ASSUME CS:CODE

START:

MOV DX, CON8255

MOV AL, 90H ;A--IN,B--OUT

OUT DX, AL

MI:

MOV DX,B0809

MOV AL,01H

OUT DX,AL ;启动1通道

MOV DX, A0809 ;启动A/D采样

OUT DX, AL

CALL DELAY

IN AL, DX ;读A/D采样结果

MOV DX, B8255

OUT DX,AL ;送入8255B口

JMP MI

DELAY:

PUSH CX

PUSH AX

MOV CX,0FFFFH;

L1: LOOP L1

POP AX

POP CX

RET

CODE ENDS

END START

查询

A8255 EQU 0600H

B8255 EQU 0602H

C8255 EQU 0604H

CON8255 EQU 0606H

;0809使用IOY1片选信号

A0809 EQU 0640H

B0809 EQU 0642H

CODE SEGMENT

ASSUME CS:CODE

START:

MOV DX, CON8255

MOV AL, 90H ;A--IN,B--OUT

OUT DX, AL

X3:

MOV DX,B0809

MOV AL,01H

OUT DX,AL ;启动1通道

MOV DX, A0809

OUT DX, AL ;启动AD采样

X1:

MOV DX,A8255

IN AL,DX ;从8255A口读入EOC状态

TEST AL,80H ;如果是不是高电平，表示未完成转换

JNZ X1

X2:

MOV DX,A8255

IN AL,DX ;从8255A口读入EOC状态

TEST AL,80H

JZ X2 ;如果是高电平，表示装换未完成

MOV DX,A0809

IN AL,DX ;从ADC0809读入转换完成的数据

MOV DX, B8255

OUT DX,AL ;从8255B口输出转换完成的数据

JMP X3 ;循环转换

CODE ENDS

END START

中断

A8255 EQU 0600H

B8255 EQU 0602H

C8255 EQU 0604H

CON8255 EQU 0606H

A0809 EQU 0640H

B0809 EQU 0642H

CODE SEGMENT

ASSUME CS:CODE

START:

MOV DX, CON8255

MOV AL, 90H

OUT DX, AL

;设置中断向量

MOV AX, OFFSET MIR6 ;ADC0809的EOC引脚连接MIR6

MOV SI, 0038H

MOV [SI], AX

MOV AX,CS

MOV SI,003AH

MOV [SI], AX

;设置ICW1~ICW4和OCW1

CLI

MOV AL, 11H

OUT 20H, AL

MOV AL, 08H

OUT 21H, AL

MOV AL,04H

OUT 21H, AL

MOV AL, 07H

OUT 21H, AL

MOV AL, 2FH

OUT 21H, AL

STI

AA1:

CLI ;关中断

MOV DX,B0809

MOV AL,01H

OUT DX,AL ;启动1通道

MOV DX, A0809 ;启动AD采样

OUT DX, AL

CALL DELAY ;延时一小段时间之后开中断，保证每一次AD转换中断只响应一次

STI

JMP AA1

MIR6:

;STI

MOV DX,A0809 ;读入AD转换之后的值

IN AL,DX

MOV DX, B8255 ;从8255B口输出

OUT DX, AL

IRET

DELAY:

PUSH CX

PUSH AX

MOV CX,0FFFH

L1: LOOP L1

POP AX

POP CX

RET

CODE ENDS

END START