

64240b series sample program

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D_BUS EQU 90H
C_BUS EQU 80H

ORG 0H
JMP START

start: ORG 100H
        mov c_bus,#0feh
        call dly10
START1: MOV C_BUS,#0FFH
        MOV D_BUS,#0FFH
        MOV IE,#0
        MOV SP,#30H
        MOV DPTR,#300H
        ANL PSW,#0E7H
        CALL DLY10
        CALL STATUS
        MOV D_BUS,#80H ;INTERNAL CG
        CALL COMW
        MOV A,#8H ;OFFSET=18H
        CALL CDW1
        CALL STATUS
        MOV D_BUS,#93H ;CUR_D
        CALL COMW
        MOV A,#10H ;G_CHAR
        CALL CDW1
        MOV A,#13H ;T_CHAR
        CALL CDW1
        CALL STATUS
        MOV D_BUS,#9BH ;GRAPHIC ON
        CALL COMW
        CALL STATUS
        MOV D_BUS,#0A7H ;8 LINE CURSOR
        CALL COMW

gw: MOV A,#0H ;CUR_P
     CALL CDW1
     MOV A,#20H
     CALL CDW1
     MOV A,#23H
     CALL CDW1
     MOV R0,#0FFH
     MOV R2,#0FFH
     CALL DISPD ;all dot on
     call c_key
     MOV A,#28H
     CALL CDW1
     MOV A,#2BH
     CALL CDW1
     MOV R0,#55H
     MOV R2,#0AAH
     CALL DISPD ;b & w dot
     call c_key
     MOV A,#30H
     CALL CDW1
     MOV A,#33H
     CALL CDW1
     MOV R0,#0AAH
     MOV R2,#55H
     CALL DISPD ;w &b dot
     call c_key
     MOV A,#20H
     CALL CDW1
;     MOV R0,#0FFH
;     MOV R2,#0FFH
;     CALL DISPD ;all dot on

     CALL STATUS
     MOV D_BUS,#9fH ;TEXT & GRAPHIC ON
     CALL COMW
     CALL STATUS
     MOV D_BUS,#81H ;
     CALL COMW
     MOV A,#50H
     CALL CDW1
     MOV A,#53H
     CALL CDW1

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MOV     A,#0
CALL   DISPD2
CALL   STATUS
MOV     D_BUS,#97H      ;text on
CALL   COMW
CALL   STATUS
MOV     D_BUS,#80H      ;
CALL   COMW
MOV     A,#60H
CALL   CDW1
MOV     A,#63H
CALL   CDW1
MOV     A,#3H           ;CUR_P
CALL   CDW1
ANL    C_BUS,#0F7H     ;8 DOT
MOV     A,#3bH
CALL   DISPD2
CALL   STATUS
MOV     D_BUS,#9BH     ;GRAPHIC ON
CALL   COMW
ORL    C_BUS,#8H       ;8 DOT
JMP    GW

DLY10:  ORG     200H
        SETB   PSW.3
        MOV    R7,#40H
DLY11:  MOV    R6,#80H
DLY12:  NOP
        DJNZ  R6,DLY12
        DJNZ  R7,DLY11
        CLR   PSW.3
        RET

DLY20:  SETB   PSW.3
        MOV    R7,#0H
DLY21:  MOV    R6,#0H
DLY22:  NOP
        NOP
        DJNZ  R6,DLY22
        DJNZ  R7,DLY21
        CLR   PSW.3
        RET

CDW1:   SETB   PSW.3
        MOV    R3,A
        MOV    R2,#3
CDW2:   CALL   STATUS
        MOV    A,R3
        MOVC  A,@A+DPTR
        MOV    D_BUS,A
        MOV    A,R2
        JB    ACC.1,CDW3
        CALL   COMW
        JMP    CDW4
CDW3:   CALL   DATAW
        INC    R3
CDW4:   DJNZ  R2,CDW2
        CLR   PSW.3
        RET

DISPD:  MOV    R6,#40H
        MOV    R7,#28H
NEXT:   CALL   STATUS
        MOV    D_BUS,R0
        CALL   DATAW
        CALL   STATUS
        MOV    D_BUS,#0C0H
        CALL   COMW
        DJNZ  R7,NEXT
        MOV    R7,#28H
        MOV    A,R0
        XCH   A,R2
        XCH   A,R0
        DJNZ  R6,NEXT
        ret

DISPD2: MOV    R0,A

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MOV R2,A
MOV R6,#8H
MOV R7,#28H
NEXT2: CALL STATUS
MOV D_BUS,R0
CALL DATAW
CALL STATUS
MOV D_BUS,#0C0H
CALL COMW
INC R0
DJNZ R7,NEXT2
MOV R7,#28H
INC R2
MOV A,R2
MOV R0,A
DJNZ R6,NEXT2
C_KEY: jb c_bus.1,auto_d
JB C_BUS.2,c_key
c_k2: jb c_bus.1,auto_d
JNB C_BUS.2,c_k2
ret
auto_d: call d1y20
c_end: RET

STATUS: MOV D_BUS,#0FFH
NOP
ORL C_BUS,#80H
NOP
ANL C_BUS,#9FH
NOP
MOV A,D_BUS
ORL C_BUS,#60H
ANL C_BUS,#7FH
ANL A,#3
XRL A,#3
JNZ STATUS
RET

COMW: ORL C_BUS,#80H
NOP
ANL C_BUS,#0CFH
NOP
ORL C_BUS,#30H
ANL C_BUS,#7FH
RET

DATAW: ANL C_BUS,#7FH
NOP
ANL C_BUS,#0CFH
NOP
ORL C_BUS,#30H
ORL C_BUS,#80H
RET

ORG 300H
DB 0,0,21H
db 1dh,7h,21h
org 308h
DB 3H,0H,22H
ORG 310H
DB 28H,0,43H
DB 28H,0,41H
ORG 320H
DB 0,2H,42H
DB 0,2H,24H
ORG 328H
DB 0,0cH,42H
db 0,0ch,24h
ORG 330H
DB 0,16H,42H
db 0,16h,24h
ORG 350h
DB 0,0H,40H
DB 0,0H,24H
ORG 360H
DB 0,1H,40H
DB 0,1H,24H
END

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