

XCS BIT 00H ;显示器片选 0=CS1,1=CS2 ;20H-2FH 为位
寻址区,位地址从 00H-7FH

BZPD BIT 01H ;0=上 8X8 半字,1=下 8X8 半字
HHBZ BIT 02H ;换行标志
HZDH BIT 03H ;0=显示汉字, 1=显示动画
LCD_RW BIT P3.0
LCD_DI BIT P3.1
LCD_E BIT P3.3
LCD_CS1 BIT P3.5
LCD_CS2 BIT P3.4

LCD_OPEN DATA 30H
LCD_LINE DATA 31H
LCD_PAGE DATA 32H
LCD_Y DATA 33H
YCPD DATA 34H ;左右半屏溢出判断
HHPD DATA 35H ;换行判断
XWPD DATA 36H ;写完一整屏判断
ORG 0000H

MOV SP,#40H

SETB XCS ;选择 CS2
MOV LCD_OPEN,#01H ;开显示器 1,关显示器
0 ;CS2
LCALL LCDOPEN

MOV LCD_LINE,#00H ;设置起始
行 ;CS2
LCALL SETLINE

MOV LCD_PAGE,#00H ;设置页地址 ;CS2
LCALL SETPAGE

MOV LCD_Y,#00H ;设置列地
址 ;CS2
LCALL SETY

LJMP CLRST1
CLR4:INC LCD_PAGE
CLRST1:LCALL SETPAGE
MOV R7,#40H
CLR5:MOV A,#0FFH ;显示校

验		;CS2	
		LCALL LCDWRDATA	
		DJNZ R7,CLR5	
		MOV A,LCD_PAGE	
		CJNE A,#07H,CLR4	
		MOV LCD_LINE,#00H	
		LCALL SETLINE	
		MOV LCD_PAGE,#00H	
		LCALL SETPAGE	
		MOV LCD_Y,#00H	
		LCALL SETY	
		LJMP CLRST2	
		CLR6:INC LCD_PAGE	
		CLRST2:LCALL SETPAGE	
		MOV R7,#40H	
		CLR7:MOV A,#00H	;清显
示		;CS2	
		LCALL LCDWRDATA	
		DJNZ R7,CLR7	
		MOV A,LCD_PAGE	
		CJNE A,#07H,CLR6	
		CLR XCS	;选择 CS1
		MOV LCD_OPEN,#01H	;开显示器 1, 关显示器
0		;CS1	
		LCALL LCDOPEN	
		MOV LCD_LINE,#00H	
		LCALL SETLINE	;设置起始
行		;CS1	
		MOV LCD_PAGE,#00H	
		LCALL SETPAGE	;设置页地
址		;CS1	
		MOV LCD_Y,#00H	
		LCALL SETY	;设置列地
址		;CS1	
		LJMP CLRST3	

```

        CLR0:INC LCD_PAGE
CLRST3:LCALL SETPAGE
        MOV R7,#40H
CLR1:MOV A,#0FFH      ;显示校
验      ;CS1
        LCALL LCDWRDATA
        DJNZ R7,CLR1
        MOV A,LCD_PAGE
        CJNE A,#07H,CLR0

        MOV LCD_LINE,#00H
        LCALL SETLINE
        MOV LCD_PAGE,#00H
        LCALL SETPAGE
        MOV LCD_Y,#00H
        LCALL SETY

        LJMP CLRST4
CLR2:INC LCD_PAGE
CLRST4:LCALL SETPAGE
        MOV R7,#40H
CLR3:MOV A,#00H      ;清显
示      ;CS1
        LCALL LCDWRDATA
        DJNZ R7,CLR3
        MOV A,LCD_PAGE
        CJNE A,#07H,CLR2

;初始化完毕
*****

        CLR HZDH
WRLCD:JNB HZDH,XZF
        XDH:MOV DPTR,#DHDOT      ;写动画或图片
        LJMP DH0
        XZF:MOV DPTR,#HZDOT      ;写字符(汉字或字母或符号)

        MOV XWPD,#00H
HZ0:CLR XCS
        MOV LCD_LINE,#00H      ;置起始行
        LCALL SETLINE

        MOV LCD_PAGE,#00H
        LCALL SETPAGE      ;置页

```

```
MOV LCD_Y,#00H      ;置列
LCALL SETY
```

```
MOV HHPD,#00H
HZ7:MOV YCPD,#00H
HZ8:CLR BZPD
HZ3:MOV R0,#08H      ;写左上 8 个 Y 列
HZ1:MOV A,#00H
    MOVC A,@A+DPTR
    LCALL LCDWRDATA
    INC DPTR
    INC LCD_Y
    DJNZ R0,HZ1
    JB BZPD,HZ2
    CLR C              ;Y 列减 8, 即返回扫描
    MOV A,LCD_Y
    SUBB A,#08H
    MOV LCD_Y,A
    LCALL SETY
    INC LCD_PAGE      ;页地址加 1,即换第 2 页扫描
    LCALL SETPAGE

    SETB BZPD
    LJMP HZ3
HZ2:DEC LCD_PAGE      ;返回到第 1 页中,准备下一个半
```

字扫描

```
LCALL SETPAGE
INC YCPD
MOV A,YCPD
CJNE A,#08H,HZ8

JB XCS,HZ9
SETB XCS              ;换屏
LCALL SETPAGE
```

```
MOV LCD_Y,#00H      ;置列
LCALL SETY
LJMP HZ7
```

```
HZ9:CLR XCS          ;写完一行后从 CS2 返回到 CS1
```

中

```
INC LCD_PAGE
INC LCD_PAGE
```

```

LCALL SETPAGE          ;下一行开始
MOV LCD_Y,#00H
LCALL SETY
INC HHPD
MOV A,HHPD
CJNE A,#04H,HZ7

```

```

INC XWPD              ;换第二幅画面
MOV A,XWPD
CJNE A,#02H,HZ0

```

```

LJMP$

```

```

DH0:MOV XWPD,#00H
DH1:CLR XCS
MOV LCD_LINE,#00H    ;置起始行
LCALL SETLINE

```

```

MOV LCD_PAGE,#00H
LCALL SETPAGE        ;置页

```

```

MOV LCD_Y,#00H      ;置列
LCALL SETY

```

```

MOV HHPD,#00H
DH2:MOV R0,#40H      ;写上 64 个 Y 列
DH3:MOV A,#00H
MOVC A,@A+DPTR
LCALL LCDWRDATA
INC DPTR
DJNZ R0,DH3
JB XCS,DH4
SETB XCS
LCALL SETPAGE
MOV LCD_Y,#00H
LCALL SETY
LJMP DH2

```

```

DH4:CLR XCS          ;写完一行后从 CS2 返回到 CS1

```

中

```

INC LCD_PAGE
LCALL SETPAGE        ;下一行开始
MOV LCD_Y,#00H

```

```
LCALL SETY
INC HHPD
MOV A,HHPD
CJNE A,#08H,DH2
```

```
INC XWPD           ;换第二幅画面
MOV A,XWPD
CJNE A,#02H,DH1
```

```
LJMP$
```

```
LCDWRINST:NOP
JB XCS,INS0
CLR LCD_CS1
SETB LCD_CS2
LJMP INS1
INS0:SETB LCD_CS1
CLR LCD_CS2
INS1:SETB LCD_E
CLR LCD_DI
CLR LCD_RW
MOV P1,A
LCALL DLY10
CLR LCD_E
LCALL DLY10
NOP
RET
```

```
LCDWRDATA:NOP
JB XCS,DAT0
CLR LCD_CS1
SETB LCD_CS2
LJMP DAT1
DAT0:SETB LCD_CS1
CLR LCD_CS2
DAT1:SETB LCD_E
SETB LCD_DI
CLR LCD_RW
MOV P1,A
LCALL DLY10
CLR LCD_E
LCALL DLY10
NOP
RET
```

LCDOPEN:MOV A,LCD_OPEN ;开显示器

ANL A,#3FH

ORL A,#3EH

LCALL LCDWRINST

NOP

RET

SETLINE:MOV A,LCD_LINE

ORL A,#0C0H ;设置起始行

LCALL LCDWRINST

NOP

RET

SETPAGE:MOV A,LCD_PAGE

ANL A,#0BFH

ORL A,#0B8H ;设置页地址

LCALL LCDWRINST

NOP

RET

SETY:MOV A,LCD_Y

ANL A,#7FH

ORL A,#40H

NOP ;设置列地址

LCALL LCDWRINST

NOP

RET

DLY10:NOP

MOV R5,#01H

DL1:MOV R4,#01H

DL2:MOV R6,#0FH

DL3:DJNZ R6,DL3

DJNZ R4,DL2

DJNZ R5,DL1

NOP

RET

HZDOT:

;新 CD0C2

DB 000H,044H,04CH,07CH,0D7H,0E6H,07CH,05CH

DB 000H,022H,01AH,04EH,0FFH,07FH,00EH,09AH

DB 044H,0FEH,0FCH,046H,0C2H,0C3H,062H,040H

DB 060H,03FH,01FH,000H,0FFH,0FFH,000H,000H

;年 CC4EA

DB 000H,020H,010H,018H,0ECH,0CFH,04AH,048H
DB 000H,004H,004H,004H,007H,007H,004H,004H
DB 0F8H,0F8H,048H,048H,068H,04CH,008H,000H
DB 0FFH,0FFH,004H,004H,004H,004H,006H,004H

;快 CBFEC

DB 000H,0C0H,060H,0FFH,0FEH,030H,060H,008H
DB 000H,000H,000H,0FFH,07FH,080H,041H,071H
DB 008H,0FFH,0FEH,008H,0F8H,0FCH,008H,000H
DB 03DH,00FH,007H,00DH,039H,071H,0E1H,041H

;乐 CC0D6

DB 000H,000H,080H,080H,0FEH,0FCH,084H,084H
DB 000H,040H,020H,030H,01CH,00EH,024H,040H
DB 0FEH,0F6H,082H,083H,0C2H,080H,000H,000H
DB 0FFH,07FH,000H,002H,00CH,018H,070H,020H

;欢 CBBB6

DB 000H,034H,0C4H,004H,0C4H,0FCH,03EH,024H
DB 000H,040H,038H,00FH,007H,03CH,098H,060H
DB 018H,00EH,0EFH,0CAH,048H,038H,01CH,008H
DB 030H,01CH,00FH,007H,01CH,070H,0E0H,040H

;迎 CD3AD

DB 000H,040H,046H,0DCH,0E8H,040H,0FEH,0FCH
DB 000H,040H,0E0H,03FH,01FH,032H,067H,0C3H
DB 006H,003H,0FDH,0FCH,004H,0FCH,0FEH,004H
DB 0C2H,0C1H,0FFH,0DFH,0C2H,0C7H,0C3H,040H

;使 CCAB9

DB 000H,080H,060H,0F8H,0EFH,006H,008H,0F8H
DB 000H,000H,000H,0FFH,07FH,080H,080H,043H
DB 0E8H,028H,0FFH,0FEH,028H,0E8H,0FCH,028H
DB 065H,039H,01FH,037H,061H,063H,0C1H,040H

;用 CD3C3

DB 000H,000H,000H,0FFH,0FEH,022H,022H,022H
DB 000H,080H,070H,03FH,00FH,002H,002H,002H
DB 0FEH,0FEH,022H,022H,022H,0FEH,0FFH,002H
DB 07FH,03FH,002H,042H,042H,0FFH,07FH,000H

;杭 CBABC

DB 000H,010H,0D0H,0FFH,0FEH,090H,010H,008H

DB 000H,006H,001H,0FFH,07FH,001H,083H,040H
DB 0E8H,0C9H,04FH,04EH,0C8H,0E8H,04CH,008H
DB 07FH,03FH,000H,000H,07FH,0FFH,0C0H,070H

;州 CD6DD

DB 000H,010H,0E0H,0C0H,0FFH,0FEH,010H,0E0H
DB 000H,080H,041H,070H,03FH,00FH,000H,001H
DB 0C0H,0FEH,0FCH,030H,0E0H,0C0H,0FFH,0FEH
DB 000H,03FH,01FH,000H,001H,000H,0FFH,07FH

;求 CC7F3

DB 000H,000H,008H,068H,0C8H,088H,008H,0FFH
DB 000H,010H,070H,038H,00DH,026H,041H,0FFH
DB 0FEH,088H,0CBH,07EH,02CH,008H,000H,000H
DB 07FH,003H,006H,01CH,038H,070H,020H,000H

;是 CCAC7

DB 000H,080H,080H,080H,0FFH,0BEH,0AAH,0AAH
DB 000H,080H,060H,038H,00FH,01AH,030H,020H
DB 0AAH,0AAH,0AAH,0FEH,0BFH,082H,0C0H,080H
DB 07FH,07FH,044H,0C4H,0C6H,0C4H,0C0H,040H

;医 CD2BD

DB 000H,000H,0FFH,0FEH,042H,0A2H,0BAH,09EH
DB 000H,040H,0FFH,07FH,060H,050H,058H,04CH
DB 096H,0F2H,0F2H,092H,09AH,0D3H,082H,000H
DB 046H,043H,041H,046H,04CH,058H,068H,040H

;学 CD1A7

DB 000H,010H,038H,01CH,00BH,04EH,048H,04BH
DB 000H,000H,004H,004H,004H,004H,044H,044H
DB 04EH,0C8H,0ECH,04FH,00AH,038H,01CH,008H
DB 0FFH,07FH,004H,004H,004H,006H,004H,000H

;科 CBFC6

DB 000H,024H,0A4H,0FEH,0FEH,0A3H,022H,0C0H
DB 000H,00CH,003H,0FFH,07FH,001H,00BH,008H
DB 08CH,038H,010H,0FFH,0FEH,000H,000H,000H
DB 00BH,005H,004H,0FFH,07FH,002H,003H,002H

;技 CBCBC

DB 000H,010H,010H,0FFH,0FEH,010H,098H,048H
DB 000H,00CH,046H,0FFH,07FH,001H,080H,040H
DB 0C8H,048H,07FH,07EH,0C8H,0E8H,04CH,008H

DB 061H,037H,01CH,01EH,037H,061H,0E0H,040H

;有 CD3D0

DB 000H,084H,044H,064H,034H,0FCH,0EFH,026H

DB 000H,000H,000H,000H,000H,0FFH,07FH,009H

DB 024H,024H,024H,0E4H,0F4H,024H,006H,004H

DB 009H,009H,049H,0FFH,07FH,000H,000H,000H

;限 CCFDE

DB 000H,0FFH,0FEH,042H,0BEH,01FH,002H,0FFH

DB 000H,0FFH,0FFH,008H,01FH,00FH,040H,0FFH

DB 0FEH,092H,092H,092H,0FEH,0FFH,002H,000H

DB 07FH,061H,036H,01CH,039H,06EH,0E4H,040H

;公 CB9AB

DB 000H,000H,080H,0C0H,070H,03EH,00FH,082H

DB 000H,001H,000H,060H,0F0H,078H,06EH,067H

DB 0C0H,080H,00FH,03EH,070H,0E0H,0C0H,080H

DB 021H,022H,026H,03CH,0F8H,070H,001H,000H

;司 CCBBE

DB 000H,000H,010H,0D2H,092H,092H,092H,092H

DB 000H,000H,000H,01FH,00FH,008H,008H,008H

DB 092H,0DAH,092H,002H,002H,0FEH,0FFH,002H

DB 01FH,00FH,000H,040H,040H,0FFH,07FH,000H

;地 CB5D8

DB 000H,020H,020H,0FEH,0FCH,020H,060H,0F8H

DB 000H,010H,030H,01FH,01FH,008H,004H,07FH

DB 0F0H,020H,0FFH,0FEH,010H,0F0H,0F8H,010H

DB 0FFH,0C0H,0C7H,0C7H,0C2H,0C7H,0F3H,040H

;址 CD6B7

DB 000H,020H,020H,0FEH,0FCH,020H,020H,0E0H

DB 000H,010H,030H,03FH,01FH,058H,048H,07FH

DB 0C0H,000H,000H,0FFH,0FEH,040H,060H,040H

DB 07FH,040H,040H,07FH,07FH,040H,060H,040H

; CA3BA

DB 000H,000H,000H,000H,000H,000H,000H,000H

DB 000H,000H,036H,036H,000H,000H,000H,000H

DB 000H,000H,000H,000H,000H,000H,000H,000H

DB 000H,000H,000H,000H,000H,000H,000H,000H

;通 CCDA8

DB 000H,040H,046H,0DCH,0E8H,040H,000H,0F9H
DB 000H,040H,0E0H,03FH,01FH,030H,060H,0FFH
DB 0F1H,055H,0FDH,0F9H,057H,0F3H,0F9H,010H
DB 0DFH,0C2H,0DFH,0CFH,0D2H,0FFH,0DFH,040H

;惠 CBBDD

DB 000H,000H,002H,0FEH,0FAH,0AAH,0AAH,0FFH
DB 000H,020H,072H,03FH,00AH,07EH,0FAH,0C3H
DB 0FFH,0AAH,0AAH,0FAH,0FEH,00AH,000H,000H
DB 0FBH,0D2H,0C2H,0F2H,04FH,016H,070H,020H

;北 CB1B1

DB 000H,020H,020H,020H,020H,0FEH,0FEH,000H
DB 000H,020H,060H,020H,010H,0FFH,0FFH,000H
DB 000H,0FFH,0FEH,082H,0C0H,060H,038H,010H
DB 000H,07FH,0FFH,0C1H,0C0H,0C0H,0F0H,040H

;路 CC2B7

DB 000H,07FH,03EH,0E2H,0BEH,07FH,002H,010H
DB 000H,07CH,060H,03FH,03FH,012H,00BH,001H
DB 08CH,0DFH,066H,074H,0DCH,08EH,004H,000H
DB 0FFH,07EH,042H,042H,0FEH,07FH,003H,001H

;2 CHAR_32

DB 008H,00CH,084H,0C4H,064H,03CH,018H,000H
DB 00EH,00FH,009H,008H,008H,00CH,00CH,000H

;8 CHAR_38

DB 0B8H,0FCH,044H,044H,044H,0FCH,0B8H,000H
DB 007H,00FH,008H,008H,008H,00FH,007H,000H

;号 CBAC5

DB 000H,080H,080H,080H,0BFH,09EH,092H,092H
DB 000H,000H,000H,000H,004H,00EH,007H,005H
DB 092H,092H,092H,0BEH,09FH,082H,0C0H,080H
DB 024H,044H,0E4H,07CH,01EH,004H,000H,000H

;电 CB5E7

DB 000H,000H,0F8H,0F0H,090H,090H,090H,0FFH
DB 000H,000H,00FH,007H,004H,004H,004H,07FH
DB 0FEH,090H,090H,090H,0F0H,0F8H,010H,000H
DB 0FFH,0C4H,0C4H,0C4H,0CFH,0C7H,0F0H,040H

;话 CBBB0

DB 000H,040H,046H,0DCH,0E8H,040H,020H,024H
DB 000H,000H,020H,07FH,03FH,010H,008H,0FFH
DB 024H,024H,0FEH,0FEH,026H,023H,032H,020H
DB 07EH,042H,043H,043H,042H,0FEH,07FH,002H

;: CA3BA

DB 000H,000H,000H,000H,000H,000H,000H,000H
DB 000H,000H,036H,036H,000H,000H,000H,000H
DB 000H,000H,000H,000H,000H,000H,000H,000H
DB 000H,000H,000H,000H,000H,000H,000H,000H

;0 CHAR_30

DB 0F8H,0FCH,004H,0C4H,024H,0FCH,0F8H,000H
DB 007H,00FH,009H,008H,008H,00FH,007H,000H

;5 CHAR_35

DB 07CH,07CH,044H,044H,0C4H,0C4H,084H,000H
DB 004H,00CH,008H,008H,008H,00FH,007H,000H

;7 CHAR_37

DB 00CH,00CH,004H,084H,0C4H,07CH,03CH,000H
DB 000H,000H,00FH,00FH,000H,000H,000H,000H

;1 CHAR_31

DB 000H,010H,018H,0FCH,0FCH,000H,000H,000H
DB 000H,008H,008H,00FH,00FH,008H,008H,000H

;~ CHAR_2D

DB 080H,080H,080H,080H,080H,080H,080H,000H
DB 000H,000H,000H,000H,000H,000H,000H,000H

;8 CHAR_38

DB 0B8H,0FCH,044H,044H,044H,0FCH,0B8H,000H
DB 007H,00FH,008H,008H,008H,00FH,007H,000H

;2 CHAR_32

DB 008H,00CH,084H,0C4H,064H,03CH,018H,000H
DB 00EH,00FH,009H,008H,008H,00CH,00CH,000H

;6 CHAR_36

DB 0F0H,0F8H,04CH,044H,044H,0C0H,080H,000H
DB 007H,00FH,008H,008H,008H,00FH,007H,000H

;0 CHAR_30

DB 0F8H,0FCH,004H,0C4H,024H,0FCH,0F8H,000H
DB 007H,00FH,009H,008H,008H,00FH,007H,000H

;4 CHAR_34

DB 0C0H,0E0H,0B0H,098H,0FCH,0FCH,080H,000H
DB 000H,000H,000H,008H,00FH,00FH,008H,000H

;7 CHAR_37

DB 00CH,00CH,004H,084H,0C4H,07CH,03CH,000H
DB 000H,000H,00FH,00FH,000H,000H,000H,000H

;1 CHAR_31

DB 000H,010H,018H,0FCH,0FCH,000H,000H,000H
DB 000H,008H,008H,00FH,00FH,008H,008H,000H

;5 CHAR_35

DB 07CH,07CH,044H,044H,0C4H,0C4H,084H,000H
DB 004H,00CH,008H,008H,008H,00FH,007H,000H

DHDOT:

;-----

DB

000H,000H,000H,000H,000H,000H,000H,007H,0E7H,0E3H,0E1H,0E1H,0E1H,0E1H,0C1H,

DB

0C1H,081H,081H,081H,083H,083H,083H,083H,087H,087H,08FH,08FH,09FH,0BFH,0FFH,0FFH,

DB

0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,

DB

0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0F3H,0F3H,0F1H,0E1H,061H,061H,020H,

DB

030H,030H,0B0H,0B0H,0B0H,0B8H,0B8H,0BCH,0BCH,03EH,03EH,03FH,03FH,07FH,07FH,07FH,

DB

0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,

DB

0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FEH,0FEH,0FCH,0FCH,0FCH,0FEH,0FFH,

DB

0F7H,0E3H,0E7H,0EFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,000H,000H,000H,

DB

000H,000H,000H,000H,000H,000H,000H,000H,001H,07FH,0FFH,0F3H,083H,083H,081H,

DB

001H,001H,000H,080H,080H,000H,002H,002H,002H,006H,004H,0A5H,0EDH,0EDH,0EBH,0DBH,

DB

0F7H,0BFH,07FH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,
DB
0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0F7H,089H,080H,082H,0C0H,080H,
DB
000H,000H,000H,000H,000H,088H,0C0H,0F8H,0F8H,0F8H,0F0H,0F0H,0E0H,0C0H,0C0H,0F0H,
DB
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DB
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DB
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DB
03FH,01FH,01FH,00FH,007H,007H,001H,000H,000H,000H,000H,000H,000H,000H,000H,000H,
DB

[illegible]

