JLX172104G-590-PN 使用说明书

目　录

1．概述

晶联讯电子专注于液晶屏及液晶模块的研发、制造。所生产 JLX172104G-590-PN 型液晶模块由于使用方便、显示清晰，广泛应用于各种人机交流面板。

JLX172104G-590-PN 可以显示 172 列*104 行点阵单色图片，或显示 16*16 点阵的汉字 10 个*6 行，或显示 8*16 点阵的英文、数字、符号 21 个*6 行。或显示 5*8 点阵的英文、数字、符号 21 个*13 行。

2．JLX172104G-590-PN 图像型点阵液晶模块的特性

2.1 结构牢：背光带有挡墙，焊接式 FPC。
2.2 IC 采用矽创公司 ST75256,功能强大，稳定性好
2.3 功耗低：不带背光 1mW（3.3V*0.3mA）,带背光不大于 150mW（3.3V*45mA）；
2.4 显示内容：
（1）172*104 点阵单色图片，或其它小于 172*104 点阵的单色图片；
（2）可选用 16*16 点阵或其他点阵的图片来自编汉字，按照 16*16 点阵汉字来计算可显示 10 字*6 行；
（3）按照 8*16 点阵汉字来计算可显示 21 字*6 行；
（4）按照 5*8 点阵汉字来计算可显示 21 字*13 行；
2.5 指令功能强：可软件调对比度；
2.6 接口简单方便：采用 4 线 SPI 串行接口。
2.7 工作温度宽:-20℃ ～ 70℃；
2.7 储存温度宽:-30℃ ～ 80℃；

3.1 外形尺寸及接口引脚功能

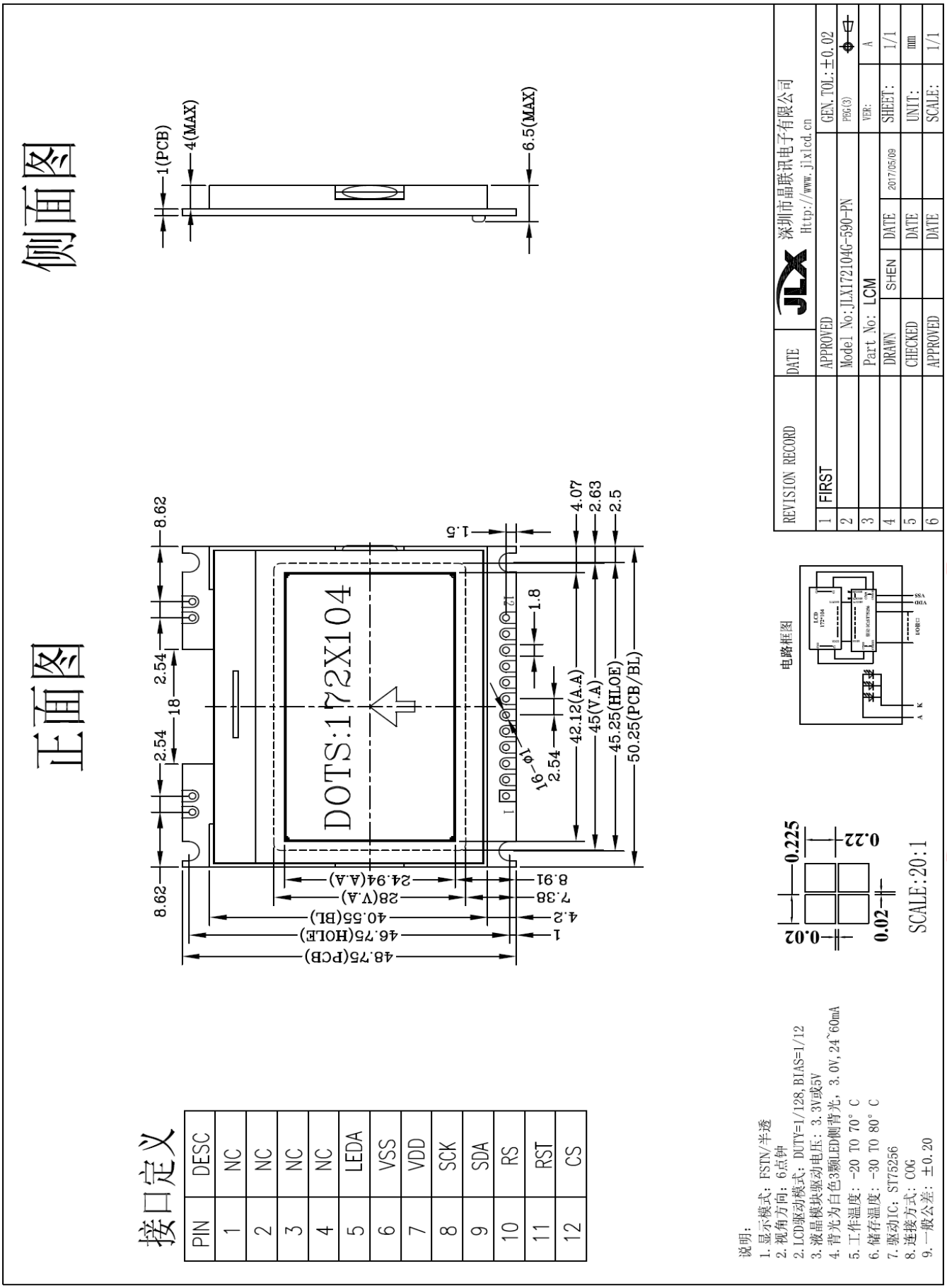


图 1. 外形尺寸

3.2 模块的接口引脚功能

引 线 号	符 号	名 称	功 能
1	NC	NC	空脚
2	NC	NC	空脚
3	NC	NC	空脚
4	NC	NC	空脚
5	LEDA	背光电源正极	同 VDD 电压
6	VSS	接地	0V
7	VDD	供电电源正极	供电电源正极
8	SCK	串行时钟	串行时钟
9	SDA	串行数据	串行数据
10	RS	寄存器选择信号	H:数据寄存器 0:指令寄存器
11	RST	复位	低电平复位，复位完成后，回到高电平，液晶模块开始工作
12	CS	片选	低电平片选

表 1：模块接口引脚功能

4. 基本原理

4.1 液晶屏（LCD）

在 LCD 上排列着 172×104 点阵,172 个列信号与驱动 IC 相连，104 个行信号也与驱动 IC 相连，IC 邦定在 LCD 玻璃上（这种加工工艺叫 COG）.

4.2 工作电图：

图 2 是 JLX172104G-590 图像点阵型模块的电路框图,它由驱动 IC ST75256 及几个电阻电容组成。

电路框图

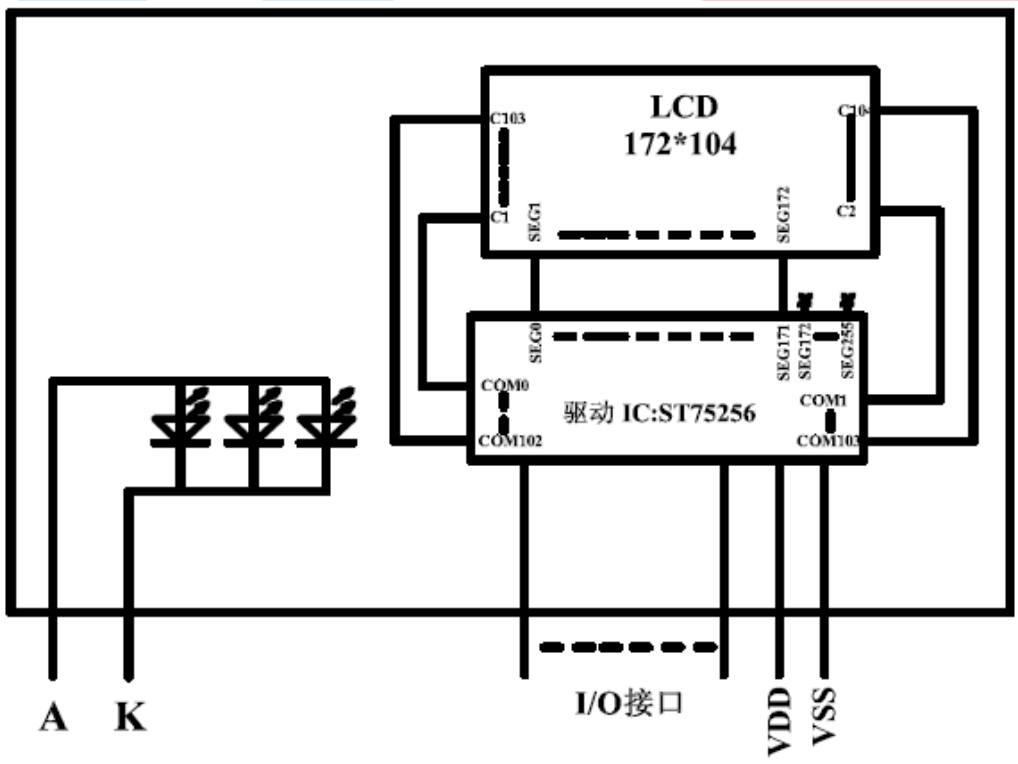


图 2:JLX172104G-590-PN 图像点阵型液晶模块的电路框图

4.2 背光参数

该型号液晶模块带 LED 背光源。它的性能参数如下:

工作温度:-20℃∽+70℃;

存储温度:-30℃∽+80℃；
背光板为白色。
正常工作电流为：24∽60mA（LED 灯数共 3 颗）；
工作电压：3.0V；

5. 技术参数

5.1 最大极限参数（超过极限参数则会损坏液晶模块）

名称	符号	标准值			单位
		最小	典型	最大	
电路电源	VDD - VSS	-0.3	—	5.5	V
LCD 驱动电压	VDD - V0	-0.3	—	13.5	V
静电电压		—	—	100	V
工作温度		-20	—	+70	℃
储存温度		-30	—	+80	℃

表 2：最大极限参数

5.2 直流（DC）参数

名 称	符 号	测 试 条 件	标 准 值			单位
			MIN	TYPE	MAX	
工作电压	VDD	—	2.6	3.3	3.6	V
背光工作电压	VLED	—	2.9	3.0	3.1	V
输入高电平	VIH	—	0.8VDD	—	VDD	V
输入低电平	VIO	—	0	—	0.2VDD	V
输出高电平	VOH	IOH = 0.2mA	0.8VDD	—	VDD	V
输出低电平	VOO	IOO = 1.2mA	0	—	0.2VDD	V
模块工作电流	IDD	VDD = 3.0V	—	0.3	1.0	mA
背光工作电流	ILED	VLED=3.0V	24	45	60	mA

表 3：直流（DC）参数

6. 读写时序特性（AC 参数）

6.1 4 线 SPI 串行接口写时序特性（AC 参数）

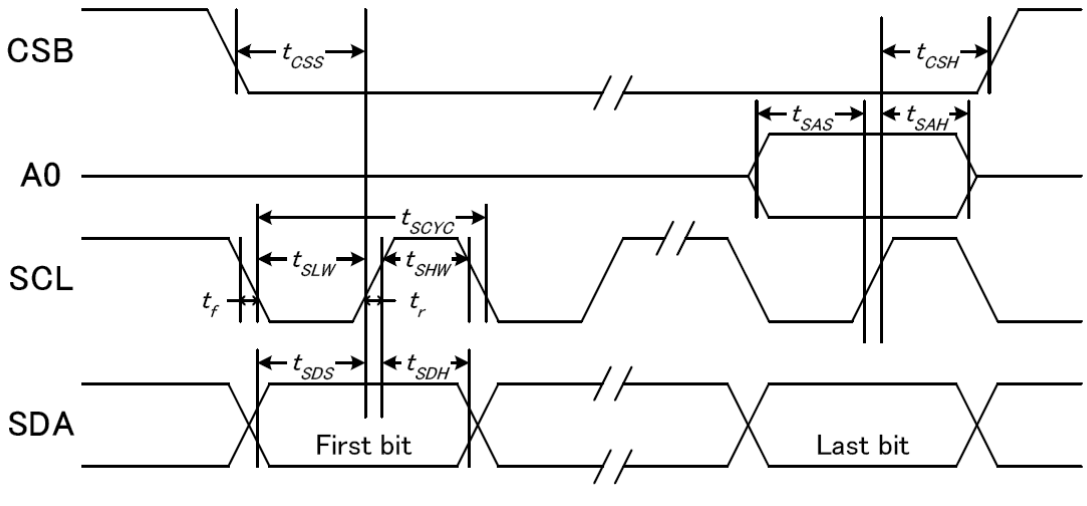


图 3. 从 CPU 写到 ST75256（Writing Data from CPU to ST75256）

表 4. 写数据到 ST75256 的时序要求

项 目	符 号	测试条件	极限值			单位
			MIN	TYPE	MAX	
4线 SPI串口时钟周期 （4-line SPI Clock Period）	tSCYC	引脚：SCL	80	--	--	ns
保持SCK高电平脉宽 （SCL “H” pulse width）	tSHW		30	--	--	ns
保持SCLK低电平脉宽 （SCL “L” pulse width）	tSLW		30	--	--	ns
地址建立时间 (Address setup time)	tSAS	引脚：A0	20	--	--	ns
地址保持时间 (Address hold time)	tSAH		20	--	--	ns
数据建立时间 (Data setup time)	tSDS	引脚：SID	20	--	--	ns
数据保持时间 (Data hold time)	tSDH		20	--	--	ns
片选信号建立时间 （CS-SCL time）	tCSS	引脚：CSB	20	--	--	ns
片选信号保持时间 （CS-SCL time）	tCSH		20	--	--	ns

VDD =1.8~3.3V±5%, Ta = -30~85℃

输入信号的上升和下降时间（TR，TF）在 15 纳秒或更少的规定。

所有的时间，用 20%和 80%作为标准规定的测定。

6.4 电源启动后复位的时序要求（RESET CONDITION AFTER POWER UP）：

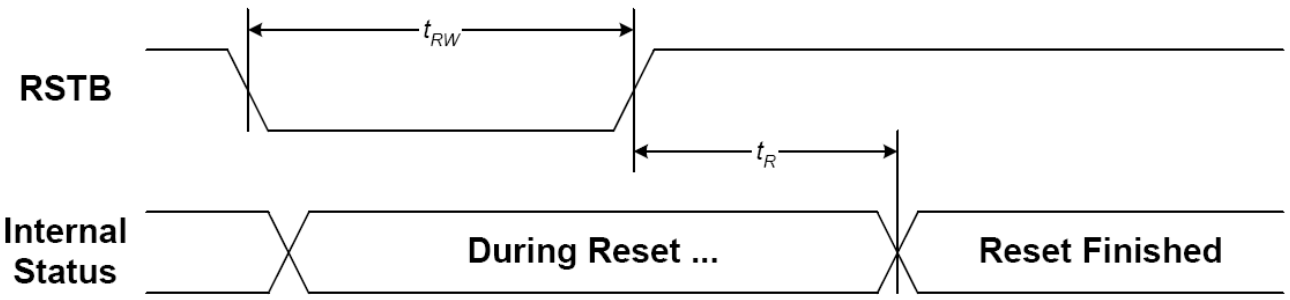


图 4：电源启动后复位的时序

表 5：电源启动后复位的时序要求

项 目	符 号	测试条件	极限值			单位
			MIN	TYPE	MAX	
复位时间	T_{RW}		--	--	1	us
复位保持低电平的时间	T_{RD}	引脚：RESET,WR	1	--	--	ms

7. 指令功能：

7.1 指令表

表 6

指令名称	指令码										
	RS	R/W	DB7	DB6	DB5	DB4	DB3	DB2	DB1	DB0	
(1)扩展指令1	0	0	0	0	1	1	EXT1	0	0	EXT0	扩展指令 1、2、3、4 0X30:扩展指令 1
Ext[1:0]=0,0(Extension Command1/扩展指令 1) 0X30 扩屏指令 1 一定要调用 0X30 才能用扩展指令 1											
(2)显示开/关 （display on/off）	0	0	1	0	1	0	1	1	1	0 1	显示开/关: 0XAE:关，0XAF：开
(3)正显/反显 （Inverse Display）	0	0	1	0	1	0	0	1	1	0 1	显示正显/反显 0XA6:正显，正常 0XA7：反显
(4)所有点阵开/关 (All Pixel ON/OFF)	0	0	0	0	1	0	0	0	1	0 1	0X22：所有点阵关 0X23：所有点阵开
(5) 控制液晶屏显示 (Display Control)	0	0	1	1	0	0	1	0	1	0	0XCA:显示控制
	1	0	0	0	0	0	0	CLD	0	0	0X00:设置 CL 驱动频率：CLD=0
	1	0	DT7	DT6	DT5	DT4	DT3	DT2	DT1	DT0	0X7F:点空比：Duty=128
	1	0	0	0	LF4	F1	LF3	LF2	LF1	LF0	0X20:帧周期
(6)省电模式 (Power save)	0	0	1	0	0	1	0	1	0	SLP	0X94：SLP=0，退出睡眠模式 0X95：SLP=1，进入睡眠模式
(7)页地址设置 (Set Page Address)	0	0	0	1	1	1	0	1	0	1	0X75：页地址设置
	1	0	YS7	YS6	YS5	YS4	YS3	YS2	YS1	YS0	0X00：起始页地址
	1	0	YE7	YE6	YE5	YE4	YE3	YE2	YE2	YE0	0X1F：结束页地址,每 4 行为 1 页
(8)列地址设置 (Set Column Address)	0	0	0	0	0	1	0	1	0	1	0X15：列地址设置
	1	0	XS7	XS6	XS5	XS4	XS3	XS2	XS1	XS0	0X00：起始列地址
	1	0	XE7	XE6	XE5	XE4	XE3	XE2	XE1	XE0	0XFF：结束列地址 XE=256
(9)行列扫描方向 (Data Scan Direction)	0	0	1	0	1	1	1	1	0	0	0XBC：行列扫描方向
	1	0	0	0	0	0	0	MV	MX	MY	0X00：MX、MY=Normal
(10)写数据到晶液屏 (Write Data)	0	0	0	1	0	1	1	1	0	0	0X5C：写数据
	1	0	D7	D6	D5	D4	D3	D2	D1	D0	8 位显示数据
(11)读液晶屏显示数据 (Read Data)	0	0	0	1	0	1	1	1	0	1	0X5D：读数据
	1	1	D7	D6	D5	D4	D3	D2	D1	D0	8 位显示数据
(12)指定区域显示数据 (Partial In)	0	0	1	0	1	0	1	0	0	0	0XA8：指定显示区域
	1	0	PTS7	PTS6	PTS5	PTS4	PTS3	PTS2	PTS1	PTS0	起始区域地址：00h≤PTS≥A1h
	1	0	PTE7	PTE6	PTE5	PTE4	PTE3	PTE2	PTE1	PTE0	结束区域地址：00h≤PTE≥A1h
(13) 退出指定区域显示 (Partial Out)	0	0	1	0	1	0	1	0	0	1	0XA9：退出指定区域显示
(14)读/改/写	0	0	1	1	1	0	0	0	0	0	0XE0：进入读/改/写
(15)退出读/改/写	0	0	1	1	1	0	1	1	1	0	0XEE：退出读/改/写
(16)指定显示滚动区域 (Scroll Area)	0	0	1	0	1	0	1	0	1	0	0XAA：滚动区域设置
	1	0	TL7	TL6	TL5	TL4	TL3	TL2	TL1	TL0	TL[7:0]:起始区域地址
	1	0	BL7	BL6	BL5	BL4	BL3	BL2	BL1	BL0	BL[7:0]:结束区域地址
	1	0	NSL7	NLS6	NSL5	NSL4	NSL3	NSL2	NSL1	NSL0	NSL[7:0]:指定行数
	1	0	0	0	0	0	0	0	SCM1	SCM0	SCM[1:0]:显示模式

(17)显示初始行设置	0	0	1	0	1	0	1	0	1	1	0XAB：滚动开始初始行设置
(Set Start Line)	1	0	SL7	SL6	SL5	SL4	SL3	SL2	SL1	SL0	00h≤SL≥A1h
(18)开振荡电路	0	0	1	1	0	1	0	0	0	1	0XD1：开内部振荡电路
(19)关振荡电路	0	0	1	1	0	1	0	0	1	0	0XD2：关内部振荡电路
(20)电源控制	0	0	0	0	1	0	0	0	0	0	0X20：电源控制
(Power Control)	1	0	0	0	0	0	VB	0	VF	VR	0X0B：VB、VF、VR=1
(21)液晶内部电压设置	0	0	1	0	0	0	0	0	0	1	0X81:设置对比度
(Set Vop)	1	0	0	0	Vop5	Vop4	Vop3	Vop2	Vop1	Vop0	0X26:微调对比度,范围 0X00-0XFF
	1	0	0	0	0	0	0	Vop7	Vop6	Vop5	0X04:粗调对比度,范围 0X00-0X07
											先微调再粗调，顺序不能变
(22)液晶内部电压控制	0	0	1	1	0	1	0	1	1	VOL	0XD6:VOP 每格增加 0.04V
(Vop Control)											0XD7:VOP 每格减少 0.04V
(23)读寄存器模式	0	0	0	1	1	1	1	1	0	REG	0X7C：读寄存器值 Vop[5:0]
											0X7D：读寄存器值 Vop[8:6]
(24)空操作	0	0	0	0	1	0	0	1	0	1	0X25：空操作
(25)读状态 (并行、IIC)	0	1	D7	D6	D5	D4	D3	D2	D1	D0	读状态字节
(26)读状态（串行接口）	0	0	1	1	1	1	1	1	1	0	读状态字节
	0	1	D7	D6	D5	D4	D3	D2	D1	D0	
(27)数据格式选择	0	0	0	0	0	0	1	D0	0	0	0X80：数据 D7→D0
(Data Format Select)											0XC0：数据 D0→D7
(28)显示模式	0	0	1	1	1	1	0	0	0	0	0XF0：显示模式设置
(Display Mode)	1	0	0	0	0	1	0	0	0	DM	0X10：黑白模式
											0X11：4 灰级度模式
(29)ICON设置	0	0	0	1	1	1	0	1	1	ICON	0X77：使能 ICON RAM
											0X76：禁用 ICON RAM
(30)设置主/从模式	0	0	0	1	1	0	1	1	1	MS	0X6E：主模式(使用主模式)
											0X6F：从模式
Ext[1:0]=0,1(Extension Command 2) 0X31 扩屏指令 2 一定要调用 0X31 才能用扩展指令 2											
(31)灰度设置	0	0	0	0	1	0	0	0	0	0	0X20:灰度级设置
Set Gray Level	1	0	0	0	0	0	0	0	0	0	GL[4:0]：浅灰度级设置
	1	0	0	0	0	0	0	0	0	0	GD[4:0]：深灰度级设置
	1	0	0	0	0	0	0	0	0	0	
	1	0	0	0	0	GL4	GL3	GL2	GL1	GL0	
	1	0	0	0	0	GL4	GL3	GL2	GL1	GL0	
	1	0	0	0	0	GL4	GL3	GL2	GL1	GL0	
	1	0	0	0	0	0	0	0	0	0	
	1	0	0	0	0	0	0	0	0	0	
	1	0	0	0	0	GD4	GD3	GD2	GD1	GD0	
	1	0	0	0	0	0	0	0	0	0	
	1	0	0	0	0	0	0	0	0	0	
	1	0	0	0	0	GD4	GD3	GD2	GD1	GD0	
	1	0	0	0	0	GD4	GD3	GD2	GD1	GD0	
	1	0	0	0	0	GD4	GD3	GD2	GD1	GD0	
	1	0	0	0	0	0	0	0	0	0	
	1	0	0	0	0	0	0	0	0	0	
(32)LCD偏压比设置	0	0	0	0	1	1	0	0	1	0	0X32：偏压比设置

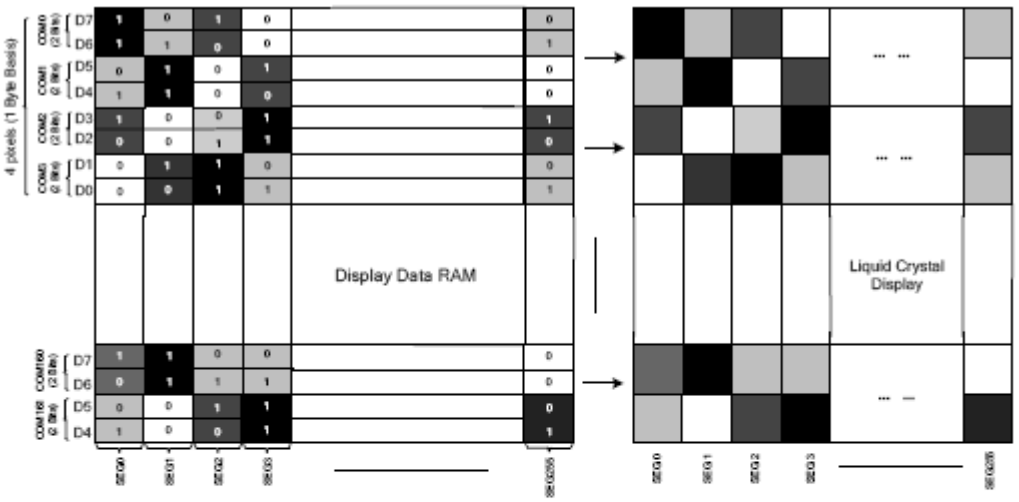
	1	0	0	0	0	0	0	0	0	0	
	1	0	0	0	0	0	0	0	BE1	BE0	0X01：升压电容频率
	1	0	0	0	0	0	0	BS2	BS1	BS0	0X02：偏压比，BIAS=1/12
(33)升压倍数	0	0	0	1	0	1	0	0	0	1	0X51:内建升压倍数设置
(Booster Level)	1	0	0	1	1	1	1	0	1	BST	0X7B:10 倍
(34)电压驱动选择	0	0	0	1	0	0	0	0	0	DS	0X41：LCD 内部升压
(35)自动读取控制	0	0	1	1	0	1	0	1	1	1	XARD=0：使能自动读
	1	0	1	0	0	XARD	1	1	1	1	XARD=0：不使能自动读
(36)控制OTP读写	0	0	1	1	1	0	0	0	0	0	0xe0：OTP 读写
	1	0	0	0	ER/RD	0	0	0	0	0	WR/RD=0；0x00,使能 OTP 读 ER/RD=1；0x20,使能 OTP 写
(37)控制OTP出	0	0	1	1	1	0	0	0	0	1	控制 OTP 出
(38)写OTP	0	0	1	1	1	0	0	0	1	0	写 OTP
(39)读OTP	0	0	1	1	1	0	0	0	1	1	读 OTP
(40)OTP选择控制	0	0	1	1	1	0	0	1	0	0	0xe4：OTP 选择控制
	1	0	1	Ctrl	0	0	1	0	0	1	Ctrl=1：0xc9，不使能 OTP Ctrl=0：0x89，使能 OTP
(41)OTP程序设置	0	0	1	1	1	0	0	1	0	1	OTP 程序设置
	1	0	0	0	0	0	1	1	1	1	
(42)帧速率	0	0	1	1	1	1	0	0	0	0	0xf0：帧速率设置在不同的温度范围
	1	0	0	0	0	FRA4	FRA3	FRA2	FRA1	FRA0	
	1	0	0	0	0	FRB4	FRB3	FRB2	FRB1	FRB0	
	1	0	0	0	0	FRC4	FRC3	FRC2	FRC1	FRC0	
	1	0	0	0	0	FRD4	FRD3	FRD2	FRD1	FRD0	
(43)温度范围	0	0	1	1	1	1	0	0	1	0	0xf2：温度范围设置
	1	0	0	TA6	TA5	TA4	TA3	TA2	TA1	TA0	
	1	0	0	TB6	TB5	TB4	TB3	TB2	TB1	TB0	
	1	0	0	TC6	TC5	TC4	TC3	TC2	TC1	TC0	
(44)温度梯度补偿	0	0	1	1	1	1	0	1	0	0	0xf4：温度补偿系数设置
	1	0	MT13	MT12	MT11	MT10	MT03	MT02	MT01	MT00	
	1	0	MT33	MT32	MT31	MT30	MT23	MT22	MT21	MT20	
	1	0	MT53	MT52	MT51	MT50	MT43	MT42	MT41	MT40	
	1	0	MT73	MT72	MT71	MT70	MT63	MT62	MT61	MT60	
	1	0	MT93	MT92	MT91	MT90	MT83	MT82	MT81	MT80	
	1	0	MTB3	MTB2	MTB1	MTB0	MTA3	MTA2	MTA1	MTA0	
	1	0	MTD3	MTD2	MTD1	MTD0	MTC3	MTC2	MTC1	MTC0	
	1	0	MTF3	MTF2	MTF1	MTF0	MTE3	MTE2	MTE1	MTE0	
Ext[1:0]=1,0(Extension Command 3) 0x38 扩屏指令 3 一定要调用 0X38 才能用扩展指令 3											
(45)ID 设置	0	0	1	1	0	1	0	1	0	1	0xd5：ID 设置
	1	0	ID7	ID6	ID5	ID4	ID3	ID2	ID1	ID0	
(46)读 ID	0	0	0	1	1	1	1	1	1	RID	RID=1：0x7f，使能
Ext[1:0]=1,1(Extension Command 4) 0x39 扩屏指令 4 一定要调用 0X39 才能用扩展指令 4											
(47)使能 OTP	0	0	1	1	0	1	0	1	1	0	0xd6：使能 OTP
	1	0	0	0	0	EOTP	0	0	0	0	EOTP=1；不使能 EOTP，一般不使能 EOTP EOTP=0；使能 EOTP

请详细参考 IC 资料”ST75256.PDF”。

7.2 点阵与 DD RAM 地址的对应关系

请留意页的定义：PAGE,与平时所讲的“页”并不是一个意思，在此表示 8 个行就是一个“页”，一个 172*104 点阵的屏分为 13 个“页”，从第 0“页”到第 12“页”。

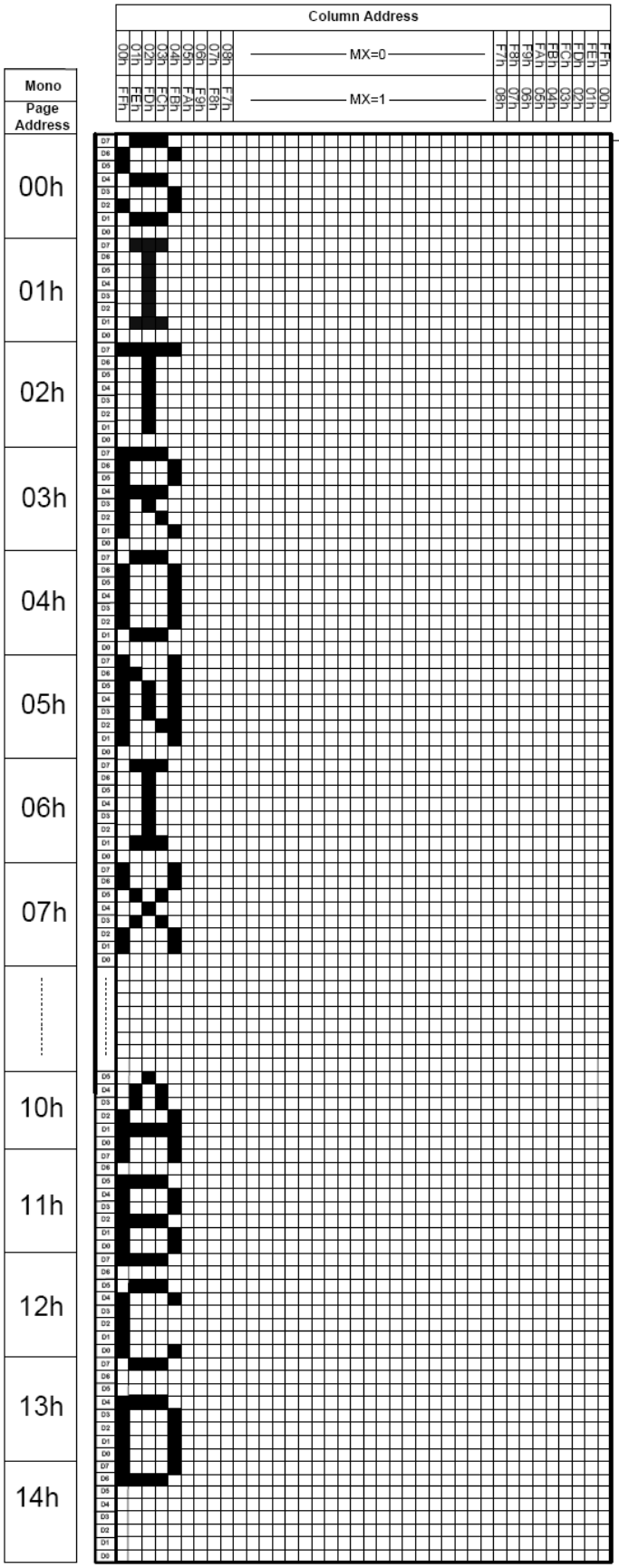
DB7--DB0 的排列方向：数据是从下向上排列的。最低位 D0 是在最上面，最高位 D7 是在最下面。每一位（bit）数据对应一个点阵，通常“1”代表点亮该点阵，“0”代表关掉该点阵.如下图所示：



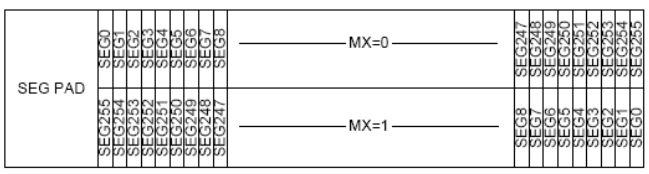
2 Bits Data N=0~3		DDRAM		LCD
D2N+1	D2N			
1	1	1	1	
0	0	0	0	
1	0	1	0	
0	1	0	1	

Figure 21 DDRAM Mapping (4-Level Gray Scale Mode)

下图摘自 ST75256 IC 资料，可通过“ST75256.PDF”之第 37 页获取最佳效果。

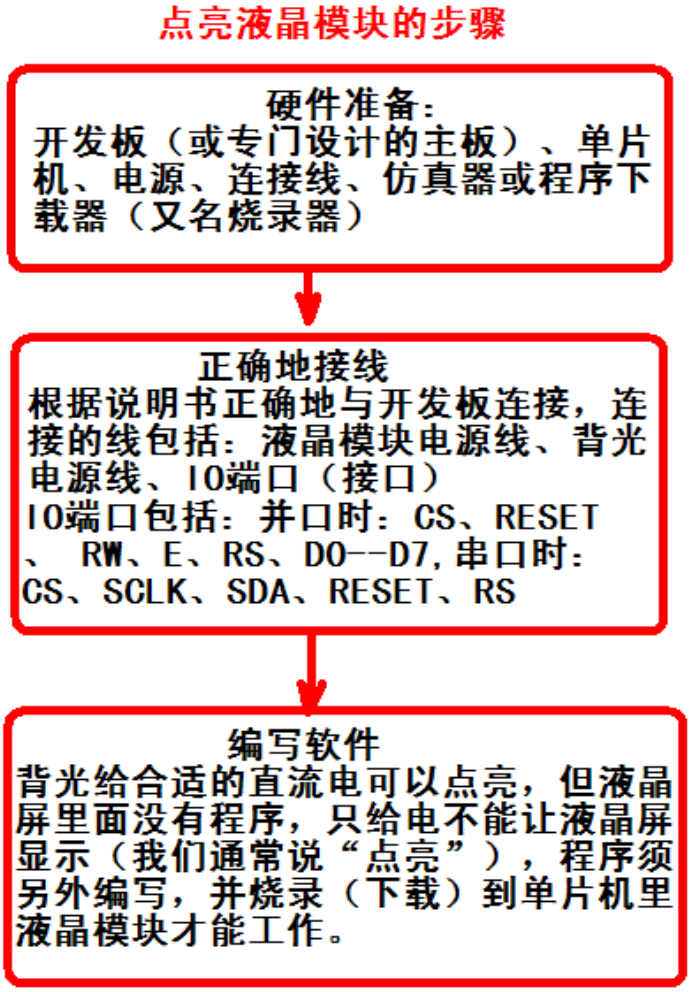


COM PAD			
DO=0	DO=1	DO=0	DO=1
COM0	COM7	COM160	X
COM1	COM6	COM161	X
COM2	COM5	X	X
COM3	COM4	X	X
COM4	COM3	X	X
COM5	COM2	X	X
COM6	COM1	X	COM161
COM7	COM0	X	COM160
COM8	COM15	COM152	COM159
COM9	COM14	COM153	COM158
COM10	COM13	COM154	COM157
COM11	COM12	COM155	COM156
COM12	COM11	COM156	COM155
COM13	COM10	COM157	COM154
COM14	COM9	COM158	COM153
COM15	COM8	COM159	COM152
COM16	COM23	COM144	COM151
COM17	COM22	COM145	COM150
COM18	COM21	COM146	COM149
COM19	COM20	COM147	COM148
COM20	COM19	COM148	COM147
COM21	COM18	COM149	COM146
COM22	COM17	COM150	COM145
COM23	COM16	COM151	COM144
COM24	COM31	COM136	COM143
COM25	COM30	COM137	COM142
COM26	COM29	COM138	COM141
COM27	COM28	COM139	COM140
COM28	COM27	COM140	COM139
COM29	COM26	COM141	COM138
COM30	COM25	COM142	COM137
COM31	COM24	COM143	COM136
COM32	COM39	COM128	COM135
COM33	COM38	COM129	COM134
COM34	COM37	COM130	COM133
COM35	COM36	COM131	COM132
COM36	COM35	COM132	COM131
COM37	COM34	COM133	COM130
COM38	COM33	COM134	COM129
COM39	COM32	COM135	COM128
COM40	COM47	COM120	COM127
COM41	COM46	COM121	COM126
COM42	COM45	COM122	COM125
COM43	COM44	COM123	COM124
COM44	COM43	COM124	COM123
COM45	COM42	COM125	COM122
COM46	COM41	COM126	COM121
COM47	COM40	COM127	COM120
COM48	COM55	COM112	COM119
COM49	COM54	COM113	COM118
COM50	COM53	COM114	COM117
COM51	COM52	COM115	COM116
COM52	COM51	COM116	COM115
COM53	COM50	COM117	COM114
COM54	COM49	COM118	COM113
COM55	COM48	COM119	COM112
COM56	COM63	COM104	COM111
COM57	COM62	COM105	COM110
COM58	COM61	COM106	COM109
COM59	COM60	COM107	COM108
COM60	COM59	COM108	COM107
COM61	COM58	COM109	COM106
COM62	COM57	COM110	COM105
COM63	COM56	COM111	COM104
MY=0	MY=0	MY=1	MY=1
COM130	COM133	COM34	COM37
COM131	COM132	COM35	COM36
COM132	COM131	COM36	COM35
COM133	COM130	COM37	COM34
COM134	COM129	COM38	COM33
COM135	COM128	COM39	COM32
COM136	COM143	COM24	COM31
COM137	COM142	COM25	COM30
COM138	COM141	COM26	COM29
COM139	COM140	COM27	COM28
COM140	COM139	COM28	COM27
COM141	COM138	COM29	COM26
COM142	COM137	COM30	COM25
COM143	COM136	COM31	COM24
COM144	COM151	COM16	COM23
COM145	COM150	COM17	COM22
COM146	COM149	COM18	COM21
COM147	COM148	COM19	COM20
COM148	COM147	COM20	COM19
COM149	COM146	COM21	COM18
COM150	COM145	COM22	COM17
COM151	COM144	COM23	COM16
COM152	COM159	COM8	COM15
COM153	COM158	COM9	COM14
COM154	COM157	COM10	COM13
COM155	COM156	COM11	COM12
COM156	COM155	COM12	COM11
COM157	COM154	COM13	COM10
COM158	COM153	COM14	COM9
COM159	COM152	COM15	COM8
COM160	X	COM0	COM7
COM161	X	COM1	COM6
X	X	COM2	COM5
X	X	COM3	COM4
X	X	COM4	COM3
X	X	COM5	COM2
X	COM161	COM6	COM1
X	COM160	COM7	COM0



7.4 初始化方法

用户所编的显示程序,开始必须进行初始化,否则模块无法正常显示,过程请参考程序



7.4 程序举例:

7.4.1 串行接口

液晶模块与 MPU(以 8051 系列单片机为例)接口图如下:

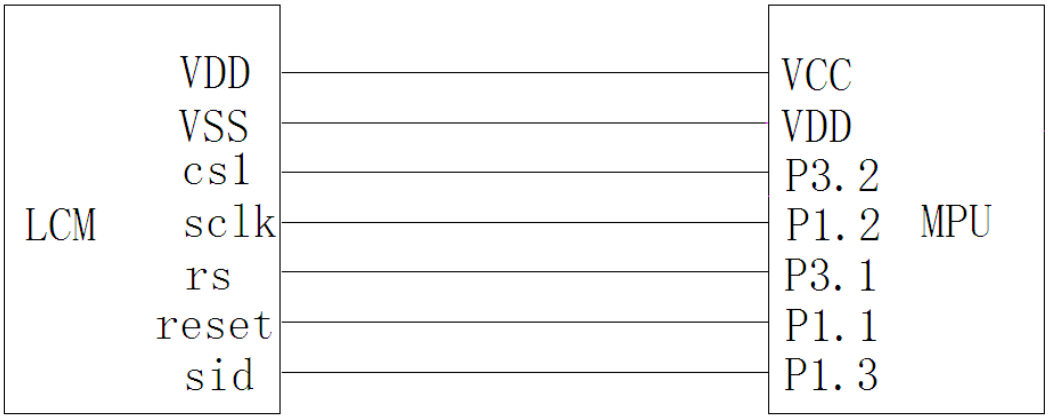


图 5. 串行接口

```
/*   液晶模块型号：JLX72104G-590-PN
     4 线串行接口
     驱动 IC 是:ST75256
     版权所有：晶联讯电子：网址   http://www.jlxlcd.cn;
*/
#include <reg52.H>
#include <intrins.h>

sbit lcd_cs1   =   P3^2;//CS
sbit lcd_reset=   P1^1;//RST
sbit lcd_sclk =   P1^2;//串行时钟
sbit lcd_rs     =   P3^1;//RS
sbit lcd_sid   =   P1^3;//串行数据

sbit key        =   P2^0;   //按键

#define uchar unsigned char
#define uint unsigned int
#define ulong unsigned long

uchar code J[];
uchar code L[];
uchar code X[];
uchar code num1[];
uchar code num7[];
uchar code num2[];
uchar code num0[];
uchar code num4[];
uchar code G[];
uchar code henggang[];
uchar code num5[];
uchar code num9[];
uchar code shen[];
uchar code zhen[];
uchar code jing[];
uchar code lian[];
uchar code xun[];
uchar code ye[];
uchar code mo[];
uchar code kuai[];
uchar code chang[];
uchar code shen1[];
uchar code zhen1[];
uchar code jing1[];
uchar code lian1[];
uchar code xun1[];
```

```
uchar code dian1[];
uchar code zi1[];
uchar code jing2[];
uchar code lian2[];
uchar code xun2[];
uchar code dian2[];
uchar code zi2[];

uchar code bmp1[];
uchar code bmp2[];
uchar code bmp_4gray_1[];

/*延时：1 毫秒的 i 倍*/
void delay(int i)
{
    int j,k;
    for(j=0;j<i;j++)
        for(k=0;k<110;k++);
}

/*延时：1us 的 i 倍*/
void delay_us(int i)
{
    int j,k;
    for(j=0;j<i;j++)
        for(k=0;k<1;k++);
}

/*等待一个按键，我的主板是用 P2.0 与 GND 之间接一个按键*/
void waitkey()
{
 repeat:
    if (key==1) goto repeat;
    else delay(800);
}

//写指令到 LCD 模块
void transfer_command_lcd(int data1)
{
    char i;
    lcd_cs1=0;
    lcd_rs=0;
    for(i=0;i<8;i++)
    {
        lcd_sclk=0;
        if(data1&0x80) lcd_sid=1;
```

```
            else lcd_sid=0;
            lcd_sclk=1;
            data1<<=1;
        }
        lcd_cs1=1;
}

//写数据到 LCD 模块
void transfer_data_lcd(int data1)
{
        char i;
        lcd_cs1=0;
        lcd_rs=1;
        for(i=0;i<8;i++)
        {
            lcd_sclk=0;
            if(data1&0x80) lcd_sid=1;
            else lcd_sid=0;
            lcd_sclk=1;
            data1<<=1;
        }
        lcd_cs1=1;
}

void initial_lcd()
{
        lcd_reset=0;
        delay(100);
        lcd_reset=1;
        delay(100);

        transfer_command_lcd(0x30);     //EXT=0
        transfer_command_lcd(0x94);     //Sleep out
        transfer_command_lcd(0x31);     //EXT=1
        transfer_command_lcd(0xD7);      //Autoread disable
        transfer_data_lcd(0X9F);          //

        transfer_command_lcd(0x32);     //Analog SET
        transfer_data_lcd(0x00);          //OSC Frequency adjustment
        transfer_data_lcd(0x01);          //Frequency on booster capacitors->6KHz
        transfer_data_lcd(0x03);          //Bias=1/11

        transfer_command_lcd(0x20);     // Gray Level
        transfer_data_lcd(0x01);
        transfer_data_lcd(0x03);
        transfer_data_lcd(0x05);
```

```
    transfer_data_lcd(0x07);
    transfer_data_lcd(0x09);
    transfer_data_lcd(0x0b);
    transfer_data_lcd(0x0d);
    transfer_data_lcd(0x10);
    transfer_data_lcd(0x11);
    transfer_data_lcd(0x13);
    transfer_data_lcd(0x15);
    transfer_data_lcd(0x17);
    transfer_data_lcd(0x19);
    transfer_data_lcd(0x1b);
    transfer_data_lcd(0x1d);
    transfer_data_lcd(0x1f);

    transfer_command_lcd(0x30);     //EXT=0
    transfer_command_lcd(0x75);     //Page Address setting
    transfer_data_lcd(0X00);        // XS=0
    transfer_data_lcd(0X4F);        // XE=159
    transfer_command_lcd(0x15);     //Clumn Address setting
    transfer_data_lcd(0X00);        // XS=0
    transfer_data_lcd(0Xff);        // XE=256    ff

    transfer_command_lcd(0xBC);     //Data scan direction
    transfer_data_lcd(0x02);        //MX.MY=Normal
    transfer_data_lcd(0xA6);

    transfer_command_lcd(0x0c);     //数据格式选择,0x0C 是低位在前 D0-D7,0x08 是高位在前 D7-D0

    transfer_command_lcd(0xCA);     //Display Control
    transfer_data_lcd(0X00);        //
    transfer_data_lcd(0X9F);        //Duty=160
    transfer_data_lcd(0X20);        //Nline=off

    transfer_command_lcd(0xF0);     //Display Mode
    transfer_data_lcd(0X10);        //10=Monochrome Mode,11=4Gray

    transfer_command_lcd(0x81);     //EV control
    transfer_data_lcd(0x08);        //VPR[5-0]
    transfer_data_lcd(0x04);        //VPR[8-6]
    transfer_command_lcd(0x20);     //Power control
    transfer_data_lcd(0x0B);        //D0=regulator ; D1=follower ; D3=booste,   on:1 off:0
    delay_us(100);
    transfer_command_lcd(0xAF);     //Display on
}

/*写 LCD 行列地址：X 为起始的列地址，Y 为起始的行地址，x_total,y_total 分别为列地址及行地址的起点到终
```

```
点的差值 */
void lcd_address(int x,int y,x_total,y_total)
{
    x=x+83;
    y=y-1;

    transfer_command_lcd(0x15);       //Set Column Address
    transfer_data_lcd(x);
    transfer_data_lcd(x+x_total-1);

    transfer_command_lcd(0x75);       //Set Page Address
    transfer_data_lcd(y);
    transfer_data_lcd(y+y_total-1);
    transfer_command_lcd(0x30);
    transfer_command_lcd(0x5c);
}

/*清屏*/
void clear_screen(int x,int y)
{
    int i,j;

    lcd_address(x,y,172,13);

    for(i=0;i<13;i++)
    {
        for(j=0;j<172;j++)
        {
            transfer_data_lcd(0x00);
        }
    }
}

//==========测试画面==============
void test(int x,int y)
{
    int i,j;

    lcd_address(x,y,172,13);

    for(i=0;i<13;i++)
    {
        for(j=0;j<172;j++)
        {
            transfer_data_lcd(0xff);
        }
```

```
    }
}

void test1(int x,int y)
{
    int i,j;

    lcd_address(x,y,172,13);

    for(i=0;i<13;i++)
    {
        for(j=0;j<172;j++)
        {
            transfer_data_lcd(0x55);
        }
    }
}

void test2(int x,int y)
{
    int i,j;

    lcd_address(x,y,172,13);

    for(i=0;i<13;i++)
    {
        for(j=0;j<172;j++)
        {
            transfer_data_lcd(0xaa);
        }
    }
}
//================================

/*显示 172*104 点阵的图像*/
void disp_172x104(int x,int y,char *dp)
{
    int i,j;

    lcd_address(x,y,172,13);

    for(i=0;i<13;i++)
    {
        for(j=0;j<172;j++)
        {
            transfer_data_lcd(*dp);
```

```
                dp++;
            }
        }
}

/*显示 32*32 点阵的汉字或等同于 32*32 点阵的图像*/
void disp_32x32(int x,int y,uchar *dp)
{
    int i,j;
    lcd_address(x,y,32,4);
    for(i=0;i<4;i++)
    {
        for(j=0;j<32;j++)
        {
            transfer_data_lcd(*dp);
            dp++;
        }
    }
}

/*显示 24*24 点阵的汉字或等同于 24*24 点阵的图像*/
void disp_24x24(int x,int y,uchar *dp)
{
    int i,j;
    lcd_address(x,y,24,3);
    for(i=0;i<3;i++)
    {
        for(j=0;j<24;j++)
        {
            transfer_data_lcd(*dp);
            dp++;
        }
    }
}

/*显示 16*16 点阵的汉字或等同于 16*16 点阵的图像*/
void disp_16x16(int x,int y,uchar *dp)
{
    int i,j;
    lcd_address(x,y,16,2);
    for(i=0;i<2;i++)
    {
        for(j=0;j<16;j++)
        {
            transfer_data_lcd(*dp);
            dp++;
```

```
            }
        }
}

/*显示 12*24 点阵的汉字或等同于 16*32 点阵的图像*/
void disp_12x24(int x,int y,uchar *dp)
{
    int i,j;
    lcd_address(x,y,12,3);
    for(i=0;i<3;i++)
    {
        for(j=0;j<12;j++)
        {
            transfer_data_lcd(*dp);
            dp++;
        }
    }
}

void disp_4gray_172x104(int x,int y,uchar *dp)
{
    int i,j;
    lcd_address(x,y,172,26);
    for(i=0;i<26;i++)
    {
        for(j=0;j<172;j++)
        {
            transfer_data_lcd(*dp);
            dp++;
        }
    }
}

//-----------------------------
void main ()
{
    initial_lcd();                                  //对液晶模块进行初始化设置
    while(1)
    {
        clear_screen(1,1);
        transfer_command_lcd(0xF0);                   //Display Mode
        transfer_data_lcd(0X11);                    //10=Monochrome Mode,11=4Gray
        disp_4gray_172x104(1,1,bmp_4gray_1);        //显示一幅 172*104 点阵的 4 灰度级图。
        waitkey();
        transfer_command_lcd(0xF0);                   //Display Mode
        transfer_data_lcd(0X10);                    //10=Monochrome Mode,11=4Gray
```

```
        clear_screen(1,1);                          //清屏
        disp_172x104(1,1,bmp1);                     //显示一幅 240*160 点阵的黑白图。地址从 1 开
始
        waitkey();
        disp_172x104(1,1,bmp2);                     //显示一幅 240*160 点阵的黑白图。地址从 1 开
始
        waitkey();
        clear_screen(1,1);                          //清屏
        disp_32x32(7,1,jing2);                      //地址从 1 开始
        disp_32x32((32*1+7),1,lian2);
        disp_32x32((32*2+7),1,xun2);
        disp_32x32((32*3+7),1,dian2);
        disp_32x32((32*4+7),1,zi2);
        disp_24x24(3+24*0,5,shen1);
        disp_24x24(3+24*1,5,zhen1);
        disp_24x24(3+24*2,5,jing1);
        disp_24x24(3+24*3,5,lian1);
        disp_24x24(3+24*4,5,xun1);
        disp_24x24(3+24*5,5,dian1);
        disp_24x24(3+24*6,5,zi1);
        disp_16x16(7+16*0,8,shen);
        disp_16x16(7+16*1,8,zhen);
        disp_16x16(7+16*2,8,jing);
        disp_16x16(7+16*3,8,lian);
        disp_16x16(7+16*4,8,xun);
        disp_16x16(7+16*5,8,ye);
        disp_16x16(7+16*6,8,jing);
        disp_16x16(7+16*7,8,mo);
        disp_16x16(7+16*8,8,kuai);
        disp_16x16(7+16*9,8,chang);
        disp_12x24(3+12*0,10,J);
        disp_12x24(3+12*1,10,L);
        disp_12x24(3+12*2,10,X);
        disp_12x24(3+12*3,10,num1);
        disp_12x24(3+12*4,10,num7);
        disp_12x24(3+12*5,10,num2);
        disp_12x24(3+12*6,10,num1);
        disp_12x24(3+12*7,10,num0);
        disp_12x24(3+12*8,10,num4);
        disp_12x24(3+12*9,10,G);
        disp_12x24(3+12*10,10,henggang);
        disp_12x24(3+12*11,10,num5);
        disp_12x24(3+12*12,10,num9);
        disp_12x24(3+12*13,10,num0);
        waitkey();
        clear_screen(1,1);                  //清屏
```

```
            test(1,1);
            waitkey();
            test1(1,1);
            waitkey();
            test2(1,1);
            waitkey();
        }
}

uchar code J[]={
/*--  文字:  J  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=12x24    --*/
0x00,0x00,0x00,0x20,0x20,0x20,0xE0,0xE0,0xE0,0x20,0x20,0x20,0x00,0x00,0x00,0x00,
0x00,0x00,0xFF,0xFF,0xFF,0x00,0x00,0x00,0x60,0xE0,0xE0,0xA0,0x80,0xC0,0xFF,0x7F,
0x3F,0x00,0x00,0x00,
};

uchar code L[]={
/*--  文字:  L  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=12x24    --*/
0x20,0xE0,0xE0,0xE0,0xE0,0x20,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0xFF,0xFF,
0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x10,0x1F,0x1F,0x1F,0x1F,0x10,0x10,0x10,
0x18,0x1C,0x1E,0x00,
};

uchar code X[]={
/*--  文字:  X  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=12x24    --*/
0x20,0x20,0xE0,0xE0,0xE0,0x20,0x00,0xA0,0xE0,0xE0,0x20,0x00,0x00,0x00,0x01,0x07,
0xDF,0xFE,0xFC,0xEF,0x83,0x00,0x00,0x00,0x10,0x18,0x1C,0x1F,0x13,0x00,0x01,0x17,
0x1F,0x1E,0x18,0x00,
};

uchar code num1[]={
/*--  文字:  1  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=12x24    --*/
0x00,0x00,0x80,0x80,0x80,0xC0,0xE0,0xE0,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0xFF,0xFF,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x10,0x10,0x18,0x1F,0x1F,0x1F,
0x10,0x10,0x00,0x00,
};

uchar code num7[]={
/*--  文字:  7  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=12x24    --*/
0x00,0xE0,0xE0,0xE0,0x60,0x60,0x60,0x60,0xE0,0xE0,0x60,0x00,0x00,0x03,0x03,0x00,
0x80,0xE0,0xF8,0x3E,0x07,0x01,0x00,0x00,0x00,0x00,0x00,0x00,0x1F,0x1F,0x1F,0x00,
```

```
0x00,0x00,0x00,0x00,
};

uchar code num2[]={
/*--  文字:  2  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=12x24    --*/
0x00,0x80,0xC0,0xE0,0x60,0x20,0x20,0x60,0xE0,0xC0,0x80,0x00,0x00,0x03,0x03,0x03,
0x80,0xC0,0xE0,0x78,0x3F,0x1F,0x07,0x00,0x18,0x1C,0x1E,0x1B,0x19,0x18,0x18,0x18,
0x1C,0x1F,0x1F,0x00,
};

uchar code num0[]={
/*--  文字:  0  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=12x24    --*/
0x00,0x00,0xC0,0xE0,0xE0,0x20,0x20,0xE0,0xE0,0xC0,0x00,0x00,0x78,0xFF,0xFF,0xFF,
0x00,0x00,0x00,0x00,0xFF,0xFF,0xFF,0x00,0x00,0x03,0x0F,0x1F,0x1C,0x10,0x10,0x1C,
0x1F,0x0F,0x03,0x00,
};

uchar code num4[]={
/*--  文字:  4  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=12x24    --*/
0x00,0x00,0x00,0x00,0x00,0x80,0xE0,0xF0,0xF0,0x00,0x00,0x00,0x80,0xE0,0xF8,0xBC,
0x8F,0x83,0xFF,0xFF,0xFF,0x80,0x80,0x00,0x00,0x00,0x00,0x00,0x10,0x10,0x1F,0x1F,
0x1F,0x18,0x10,0x00,
};

uchar code G[]={

/*--  文字:  G  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=12x24    --*/
0x00,0x80,0xC0,0xE0,0xE0,0x20,0x20,0x60,0xE0,0xE0,0x80,0x00,0xFE,0xFF,0xFF,0x03,
0x00,0x00,0x40,0x40,0xC0,0xC1,0xC1,0x00,0x01,0x07,0x0F,0x1F,0x18,0x10,0x10,0x18,
0x1F,0x0F,0x0F,0x00,
};

uchar code henggang[]={
/*--  文字:  -  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=12x24    --*/
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x10,0x10,0x10,0x10,
0x10,0x10,0x10,0x10,0x10,0x10,0x10,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,
};

uchar code num5[]={
/*--  文字:  5  --*/
```

```
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=12x24    --*/
0x00,0x00,0xE0,0xE0,0x60,0x60,0x60,0x60,0x60,0x60,0x60,0x00,0x00,0x30,0x3F,0x3F,
0x18,0x08,0x08,0x18,0xF8,0xF0,0xE0,0x00,0x00,0x0F,0x0F,0x1F,0x10,0x10,0x10,0x18,
0x1F,0x0F,0x07,0x00,
};

uchar code num9[]={
/*--  文字:  9  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=12x24    --*/
0x00,0x80,0xC0,0xE0,0x60,0x20,0x20,0x60,0xE0,0xC0,0x80,0x00,0x0E,0x3F,0x7F,0x7F,
0x60,0x40,0x60,0x60,0xFF,0xFF,0xFF,0x00,0x00,0x0C,0x1C,0x1C,0x1C,0x10,0x18,0x1E,
0x0F,0x07,0x01,0x00,
};

uchar code shen[]={
/*--  文字:  深  --*/
/*--  新宋体 12;  此字体下对应的点阵为：宽 x 高=16x16    --*/
0x10,0x61,0x06,0xE0,0x00,0x26,0x22,0x1A,0x02,0xC2,0x0A,0x12,0x32,0x06,0x02,0x00,
0x04,0xFC,0x03,0x20,0x20,0x11,0x11,0x09,0x05,0xFF,0x05,0x09,0x19,0x31,0x10,0x00,
};

uchar code zhen[]={
/*--  文字:  圳  --*/
/*--  新宋体 12;  此字体下对应的点阵为：宽 x 高=16x16    --*/
0x10,0x10,0x10,0xFE,0x10,0x10,0xFE,0x00,0x00,0xFC,0x00,0x00,0x00,0xFE,0x00,0x00,
0x08,0x08,0x04,0x47,0x24,0x18,0x07,0x00,0x00,0x1F,0x00,0x00,0x00,0x7F,0x00,0x00,
};

uchar code jing[]={
/*--  文字:  晶  --*/
/*--  新宋体 12;  此字体下对应的点阵为：宽 x 高=16x16    --*/
0x00,0x00,0x00,0x00,0x7E,0x2A,0x2A,0x2A,0x2A,0x2A,0x2A,0x7E,0x00,0x00,0x00,0x00,
0x00,0x7F,0x25,0x25,0x25,0x25,0x7F,0x00,0x00,0x7F,0x25,0x25,0x25,0x25,0x7F,0x00,
};

uchar code lian[]={
/*--  文字:  联  --*/
/*--  新宋体 12;  此字体下对应的点阵为：宽 x 高=16x16    --*/
0x02,0xFE,0x92,0x92,0x92,0xFE,0x12,0x11,0x12,0x1C,0xF0,0x18,0x17,0x12,0x10,0x00,
0x08,0x1F,0x08,0x08,0x04,0xFF,0x05,0x81,0x41,0x31,0x0F,0x11,0x21,0xC1,0x41,0x00,
};

uchar code xun[]={
/*--  文字:  讯  --*/
/*--  新宋体 12;  此字体下对应的点阵为：宽 x 高=16x16    --*/
0x20,0x21,0x2E,0xE4,0x00,0x42,0x42,0xFE,0x42,0x42,0x42,0x02,0xFE,0x00,0x00,0x00,
```

```
0x00,0x00,0x00,0x7F,0x20,0x10,0x00,0x7F,0x00,0x00,0x00,0x00,0x3F,0x40,0x38,0x00,
};

uchar code ye[]={
/*--  文字:  液  --*/
/*--  新宋体 12;  此字体下对应的点阵为：宽 x 高=16x16    --*/
0x10,0x61,0x06,0xE0,0x18,0x84,0xE4,0x1C,0x84,0x65,0xBE,0x24,0xA4,0x64,0x04,0x00,
0x04,0x04,0xFF,0x00,0x01,0x00,0xFF,0x41,0x21,0x12,0x0C,0x1B,0x61,0xC0,0x40,0x00,
};

uchar code mo[]={
/*--  文字:  模  --*/
/*--  新宋体 12;  此字体下对应的点阵为：宽 x 高=16x16    --*/
0x10,0xD0,0xFF,0x50,0x90,0x04,0xF4,0x54,0x5F,0x54,0x54,0x5F,0xF4,0x04,0x00,0x00,
0x03,0x00,0xFF,0x00,0x00,0x84,0x85,0x45,0x35,0x0F,0x15,0x25,0x65,0xC4,0x44,0x00,
};

uchar code kuai[]={
/*--  文字:  块  --*/
/*--  新宋体 12;  此字体下对应的点阵为：宽 x 高=16x16    --*/
0x10,0x10,0xFF,0x10,0x10,0x00,0x08,0x08,0xFF,0x08,0x08,0x08,0xF8,0x00,0x00,0x00,
0x08,0x18,0x0F,0x04,0x85,0x41,0x31,0x0D,0x03,0x05,0x09,0x11,0x31,0x61,0x21,0x00,
};

uchar code chang[]={
/*--  文字:  厂  --*/
/*--  新宋体 12;  此字体下对应的点阵为：宽 x 高=16x16    --*/
0x00,0x00,0xFE,0x02,0x02,0x02,0x02,0x02,0x02,0x02,0x02,0x02,0x02,0x02,0x02,0x00,
0x40,0x30,0x0F,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
};

uchar code shen1[]={
/*--  文字:  深  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=24x24    --*/
0x00,0x00,0x00,0x18,0x78,0x70,0x70,0x80,0xC0,0xE0,0xF8,0xB8,0xD0,0xD0,0x90,0x50,
0xD0,0xD0,0xD0,0xF0,0x38,0x38,0x10,0x00,0x01,0x03,0x0E,0x1E,0xDC,0xF8,0x7F,0x27,
0x28,0x2C,0x2E,0xA3,0xE3,0xE1,0xFE,0xFE,0xE4,0xE0,0x23,0x27,0x37,0x36,0x20,0x00,
0x00,0x02,0x72,0x7F,0x7F,0x23,0x20,0x30,0x18,0x1C,0x0E,0x07,0x03,0x01,0xFF,0x7F,
0x71,0x07,0x0F,0x1E,0x1C,0x18,0x10,0x00,
};

uchar code zhen1[]={
/*--  文字:  圳  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=24x24    --*/
0x00,0x00,0x00,0x00,0xFC,0xFC,0xFC,0x08,0x00,0x00,0xFC,0xFC,0xFC,0x08,0x00,0xF0,
0xF0,0xE0,0x00,0x00,0xFC,0xFC,0x08,0x00,0x02,0x02,0x02,0x02,0xFF,0xFF,0xFF,0x03,
```

```
0x03,0x03,0xFF,0xFF,0xFF,0x00,0x00,0xFF,0xFF,0xFF,0x00,0x00,0xFF,0xFF,0x00,0x00,
0x04,0x0C,0x0C,0x0E,0x07,0x43,0x43,0x63,0x39,0x1F,0x0F,0x07,0x00,0x00,0x00,0x0F,
0x0F,0x07,0x00,0x00,0x7F,0x7F,0x38,0x00,
};

uchar code jing1[]={
/*--  文字:  晶  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=24x24  --*/
0x00,0x00,0x00,0x00,0x00,0x00,0xFC,0xFC,0xFC,0x48,0x48,0x48,0x48,0x48,0x48,0x48,
0xFC,0xFC,0xFC,0x08,0x00,0x00,0x00,0x00,0x00,0x00,0xF0,0xF0,0xF0,0x20,0x2F,0x2F,
0xE7,0xF2,0xF2,0x22,0x02,0xF2,0xF2,0x22,0x27,0x27,0x27,0xF0,0xF0,0xF0,0x20,0x00,
0x00,0x00,0x7F,0x7F,0x7F,0x22,0x22,0x22,0x7F,0x7F,0x7F,0x00,0x00,0x7F,0x7F,0x22,
0x22,0x22,0x22,0x7F,0x7F,0x7F,0x00,0x00,
};

uchar code lian1[]={
/*--  文字:  联  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=24x24  --*/
0x10,0x10,0xF0,0xF0,0xF0,0x10,0x10,0xF0,0xF0,0xF8,0x18,0x18,0x1C,0x7C,0x78,0x30,
0xC0,0xF8,0x3E,0x9E,0x8C,0x80,0x00,0x00,0x00,0x00,0xFF,0xFF,0xFF,0x22,0x22,0xFF,
0xFF,0xFF,0x11,0x11,0x11,0x11,0xFF,0xFF,0xFF,0xF1,0x11,0x11,0x18,0x19,0x31,0x20,
0x00,0x0C,0x0F,0x0F,0x07,0x06,0x06,0x7F,0x7F,0x7F,0x41,0x61,0x38,0x1E,0x0F,0x07,
0x01,0x07,0x1F,0x3C,0x78,0x70,0x20,0x20,
};

uchar code xun1[]={
/*--  文字:  讯  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=24x24  --*/
0x00,0x00,0x00,0x04,0x1C,0x38,0x38,0x30,0x10,0x10,0x10,0x10,0xF0,0xF0,0x50,0x10,
0x10,0xF8,0xF8,0xF8,0x10,0x00,0x00,0x00,0x04,0x04,0x04,0x04,0x04,0xFE,0xFE,0x16,
0x10,0x10,0x10,0x10,0xFF,0xFF,0x18,0x1C,0x0C,0x3F,0xFF,0xFF,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x10,0x3F,0x3F,0x1C,0x0E,0x03,0x01,0x00,0x7F,0x3F,0x00,0x00,
0x00,0x00,0x07,0x1F,0x3F,0x3F,0x7F,0x00,
};

uchar code dian1[]={
/*--  文字:  电  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=24x24  --*/
0x00,0x00,0x00,0xC0,0xC0,0xC0,0x40,0x40,0x40,0x40,0xFC,0xFC,0xFC,0x44,0x40,0x40,
0x40,0xC0,0xC0,0xC0,0x80,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0xFF,0xFF,0x08,0x08,
0x08,0x08,0xFF,0xFF,0xFF,0x08,0x08,0x08,0x08,0xFF,0xFF,0xFF,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x03,0x03,0x03,0x01,0x01,0x01,0x01,0x3F,0x7F,0x7F,0x41,0x41,0x41,
0x41,0x43,0x43,0x61,0x7E,0x7E,0x30,0x00,
};

uchar code zi1[]={
```

```
/*--  文字:  子  --*/
/*--  新宋体 18;  此字体下对应的点阵为：宽 x 高=24x24    --*/
0x00,0x00,0x00,0x08,0x08,0x08,0x08,0x08,0x08,0x08,0x08,0x88,0x88,0x88,0xC8,0x68,
0x78,0x38,0x1C,0x1C,0x18,0x10,0x00,0x00,0x00,0x08,0x08,0x08,0x08,0x08,0x08,0x08,
0x08,0x08,0x08,0xFF,0xFF,0xFF,0x0A,0x08,0x08,0x08,0x08,0x0C,0x0C,0x0C,0x18,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x20,0x20,0x60,0x60,0x7F,0x7F,0x3F,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
};

uchar code jing2[]={
/*--  文字:  晶  --*/
/*--  新宋体 23;  此字体下对应的点阵为：宽 x 高=32x31    --*/
/*--  高度不是 8 的倍数，现调整为：宽度 x 高度=32x32  --*/
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xF8,0xF8,0xF8,0xF8,0x10,0x10,0x10,0x10,
0x10,0x10,0x10,0x10,0x10,0xF8,0xFC,0xFC,0x18,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x80,0x80,0x00,0x00,0x00,0x7F,0x7F,0x3F,0x3F,0x91,0x91,0x11,0x11,
0x11,0x91,0x11,0x11,0x11,0x3F,0x3F,0x3F,0x00,0x00,0x80,0x80,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0xFF,0xFF,0xFF,0x41,0x41,0x41,0x41,0x41,0xFF,0xFF,0xFF,0x03,0x00,
0x00,0xFF,0xFF,0xFF,0x41,0x41,0x41,0x41,0x41,0xFF,0xFF,0xFF,0x03,0x00,0x00,0x00,
0x00,0x00,0x00,0x3F,0x3F,0x1F,0x08,0x08,0x08,0x08,0x08,0x1F,0x1F,0x1F,0x00,0x00,
0x00,0x3F,0x3F,0x1F,0x08,0x08,0x08,0x08,0x08,0x1F,0x1F,0x1F,0x00,0x00,0x00,0x00,
};

uchar code lian2[]={
/*--  文字:  联  --*/
/*--  新宋体 23;  此字体下对应的点阵为：宽 x 高=32x31    --*/
/*--  高度不是 8 的倍数，现调整为：宽度 x 高度=32x32  --*/
0x00,0x20,0x20,0xE0,0xE0,0xE0,0x20,0x20,0x20,0xE0,0xE0,0xF0,0x38,0x18,0x30,0x2C,
0x3C,0xF8,0xF0,0xE0,0x00,0x80,0xE0,0xFC,0x7C,0x1C,0x08,0x08,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0xFF,0xFF,0xFF,0x08,0x08,0x08,0xFF,0xFF,0xFF,0x04,0x04,0x04,0x04,
0x04,0x04,0x04,0xFC,0xFE,0xFF,0x07,0x04,0x06,0x07,0x83,0xC7,0xC6,0x80,0x00,0x00,
0x00,0x00,0x00,0xFF,0xFF,0xFF,0x82,0xC2,0xC2,0xFF,0xFF,0xFF,0x21,0x21,0x21,0x01,
0x01,0x81,0xF9,0xFF,0x7F,0x1F,0xFF,0xF1,0xC1,0x01,0x01,0x01,0x01,0x01,0x01,0x00,
0x00,0x01,0x03,0x03,0x01,0x01,0x00,0x00,0x00,0x3F,0x3F,0x3F,0x20,0x30,0x18,0x1C,
0x0E,0x07,0x03,0x01,0x00,0x00,0x00,0x03,0x07,0x0F,0x1E,0x1C,0x18,0x18,0x00,0x00,
};

uchar code xun2[]={
/*--  文字:  讯  --*/
/*--  新宋体 23;  此字体下对应的点阵为：宽 x 高=32x31    --*/
/*--  高度不是 8 的倍数，现调整为：宽度 x 高度=32x32  --*/
0x00,0x00,0x00,0x00,0x08,0x18,0x78,0xF8,0xF0,0x60,0x20,0x20,0x20,0x20,0x20,0xA0,
0xA0,0xA0,0xA0,0x20,0x20,0x20,0x20,0xF0,0xF8,0xF0,0x20,0x00,0x00,0x00,0x00,0x00,
0x00,0x20,0x20,0x20,0x20,0x20,0xF0,0xF0,0xF0,0x30,0xA0,0x80,0x80,0x80,0x80,0xFF,
0xFF,0xFF,0x81,0xC0,0xE0,0x60,0xC0,0xFF,0xFF,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0xFF,0xFF,0x80,0xC0,0xE0,0x60,0x20,0x00,0xFF,
```

```
0xFF,0xFF,0x00,0x00,0x00,0x00,0x00,0x7F,0xFF,0xFF,0xC0,0x80,0xF0,0xF0,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x07,0x0F,0x0F,0x07,0x03,0x00,0x00,0x00,0x00,0x1F,
0x1F,0x1F,0x00,0x00,0x00,0x00,0x00,0x00,0x03,0x07,0x0F,0x1F,0x1F,0x1F,0x00,0x00,
};

uchar code dian2[]={
/*--  文字:  电  --*/
/*--  新宋体 23;  此字体下对应的点阵为：宽 x 高=32x31  --*/
/*--  高度不是 8 的倍数，现调整为：宽度 x 高度=32x32  --*/
0x00,0x00,0x00,0x00,0x80,0x80,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFC,0xFC,0xFC,
0x08,0x00,0x00,0x00,0x00,0x00,0x00,0x80,0x80,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0xFF,0xFF,0xFF,0x41,0x41,0x41,0x41,0x41,0x41,0xFF,0xFF,0xFF,
0x41,0x41,0x41,0x41,0x41,0x41,0xFF,0xFF,0xFF,0xFF,0x02,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0xFF,0xFF,0x7F,0x10,0x10,0x10,0x10,0x10,0x10,0xFF,0xFF,0xFF,
0x10,0x10,0x10,0x10,0x10,0x10,0x3F,0x3F,0x3F,0x3F,0xC0,0xC0,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x0F,0x1F,0x1F,
0x18,0x10,0x10,0x10,0x10,0x10,0x10,0x10,0x10,0x18,0x1F,0x1F,0x1E,0x08,0x00,0x00,
};

uchar code zi2[]={
/*--  文字:  子  --*/
/*--  新宋体 23;  此字体下对应的点阵为：宽 x 高=32x31  --*/
/*--  高度不是 8 的倍数，现调整为：宽度 x 高度=32x32  --*/
0x00,0x00,0x00,0x00,0x10,0x10,0x10,0x10,0x10,0x10,0x10,0x10,0x10,0x10,0x10,0x10,
0x10,0x10,0x10,0x90,0xD0,0xF0,0x70,0x78,0x38,0x38,0x30,0x20,0x00,0x00,0x00,0x00,
0x00,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0xFE,0xFE,
0xFC,0x4E,0x4B,0x41,0x41,0x40,0x40,0x40,0x40,0x60,0x70,0x70,0xE0,0xC0,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0xFF,
0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x04,0x0C,0x08,0x18,0x38,0x3F,0x3F,
0x1F,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
};

uchar code bmp1[]={
/*--  调入了一幅图像：G:\WORK\记录文档\图片\172104 点阵图片\G-590.bmp  --*/
/*--  宽度 x 高度=172x104  --*/
0xFF,0xFF,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,
0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x13,0x63,0x03,0x03,0x63,0x23,0xA3,0x23,
0x23,0xA3,0x23,0x23,0x63,0x23,0x03,0x03,0x03,0x03,0xE3,0x03,0x03,0xE3,0x03,0x03,0x03,
0xC3,0x03,0x03,0x03,0xE3,0x03,0x03,0x43,0x43,0x43,0x43,0x43,0x43,0x53,0xE3,0x43,
0x43,0x43,0x43,0x43,0x43,0x43,0x03,0x03,0x03,0x03,0x03,0x03,0xE3,0xA3,0xA3,0xA3,0xA3,
0xA3,0xA3,0xE3,0x03,0x03,0x03,0x03,0x03,0x23,0xE3,0x23,0x23,0x23,0xE3,0x23,0x13,0x23,
0xC3,0x03,0x83,0x73,0x23,0x03,0x03,0x03,0x03,0x13,0xE3,0x43,0x03,0x23,0x23,0xE3,0x23,
0x23,0x23,0x23,0x23,0xE3,0x03,0x03,0x03,0x03,0x03,0x03,0x83,0x83,0x83,0x83,0x83,0xF3,0x83,
0x83,0x83,0x83,0x83,0x03,0x03,0x03,0x03,0x03,0x03,0x23,0x23,0x23,0x23,0x23,0x23,0x23,
0xA3,0x63,0x23,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,
```

0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0x03,0xFF,0xFF,0xFF,0xFF,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x41,0xC6,0x30,0x0E,0x00,0x12,0x12,0x91,0x50,0xFC,0x50,0x91,0x93,
0x10,0x00,0x00,0x81,0x81,0x41,0x7F,0x41,0x81,0x7F,0x00,0x00,0xFF,0x00,0x00,0x00,
0xFF,0x00,0x00,0x00,0x00,0x00,0xFE,0x02,0x02,0x02,0xFF,0x02,0x02,0x02,0x02,0xFE,
0x00,0x00,0x00,0x00,0xF0,0x50,0x50,0x57,0x52,0xF2,0x02,0x02,0xF2,0x52,0x57,0x50,
0x50,0xF0,0x00,0x80,0xFF,0x89,0x89,0x49,0xFF,0x51,0x11,0x11,0x11,0xFF,0x11,0x11,
0x11,0x11,0x00,0x02,0x02,0x02,0xFE,0x00,0x04,0x04,0xFF,0x04,0x04,0x04,0x00,0xFF,
0x00,0x80,0x00,0x00,0x00,0xFF,0x44,0x44,0x44,0x44,0xFF,0x44,0x44,0x44,0x44,0xFF,
0x00,0x00,0x00,0x10,0x10,0x10,0x10,0x10,0x10,0x10,0xFE,0x11,0x10,0x10,0x10,0x10,
0x18,0x10,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0xFF,0xFF,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x0F,0x80,0x82,0x82,0x81,0x81,0x00,0x80,0x8F,0x80,0x00,0x01,0x03,0x01,0x00,0x80,
0x80,0x80,0x04,0x02,0x81,0x80,0x80,0x00,0x01,0x00,0x80,0x00,0x07,0x00,0x00,0x00,
0x80,0x80,0x83,0x80,0x80,0x80,0x0F,0x00,0x00,0x81,0x82,0x81,0x80,0x00,0x00,0x00,
0x07,0x02,0x82,0x02,0x02,0x07,0x00,0x00,0x07,0x02,0x82,0x82,0x02,0x07,0x00,0x00,
0x01,0x00,0x00,0x00,0x8F,0x00,0x08,0x04,0x03,0x80,0x81,0x82,0x8C,0x04,0x00,0x00,
0x00,0x00,0x07,0x02,0x01,0x00,0x07,0x00,0x80,0x80,0x80,0x83,0x84,0x83,0x00,0x00,
0x00,0x00,0x80,0x80,0x00,0x00,0x03,0x04,0x04,0x04,0x84,0x84,0x04,0x07,0x00,0x00,
0x00,0x00,0x00,0x00,0x04,0x08,0x07,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0xFF,0xFF,0xFF,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,
0x00,0x00,0x00,0x00,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x01,0xC6,0x38,0x38,
0xC6,0x01,0x00,0x00,0x01,0x01,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x03,0x00,0xF0,0x0C,
0x03,0x00,0x00,0x00,0x07,0x80,0x40,0x20,0x18,0x07,0x00,0x00,0x01,0x01,0xFF,0x00,
0x00,0x00,0x00,0x00,0xFE,0x01,0x00,0x00,0x01,0xFE,0x00,0x00,0x70,0x4C,0x42,0x41,
0xFF,0x40,0x00,0x7C,0x83,0x00,0x00,0x20,0xE3,0x20,0x00,0x00,0x10,0x10,0x10,0x10,
0x10,0x10,0x10,0x00,0x9F,0x10,0x08,0x08,0x10,0xE0,0x00,0x00,0x0E,0x11,0x20,0x20,
0x11,0xFE,0x00,0x00,0xFE,0x01,0x00,0x00,0x01,0xFE,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0xFF,
0xFF,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x0C,0x08,0x08,0x08,0x07,0x00,0x00,0x00,0x02,
0x03,0x02,0x02,0x02,0x02,0x03,0xF0,0x42,0x43,0x42,0x40,0x40,0x02,0x03,0x02,0xE0,
0x22,0x22,0xA3,0x62,0x82,0x80,0x80,0xF0,0x80,0x80,0x83,0x80,0x80,0x00,0x00,0x00,
0x03,0x02,0x02,0x02,0x02,0x03,0x00,0x00,0x02,0x02,0x83,0x02,0x02,0x00,0x00,0x00,
0x80,0x81,0x82,0x82,0x81,0x80,0x00,0x00,0x00,0x80,0x82,0x82,0x83,0x02,0x00,0x80,
0x81,0x82,0x02,0x02,0x81,0x80,0x80,0x00,0x00,0x00,0x80,0x00,0x00,0x00,0x00,0x00,
0x01,0x02,0x82,0x82,0x01,0x00,0x00,0x00,0x00,0x03,0x02,0x02,0x81,0x00,0x00,0x00,
0x00,0x01,0x02,0x02,0x01,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0xFF,0xFF,0xFF,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x7E,0x22,

0x22,0x22,0xA3,0x22,0x22,0x22,0xFF,0x02,0x00,0x00,0x00,0xFF,0x00,0x21,0x42,0x3C,
0x48,0x4C,0x4B,0x48,0xFE,0x48,0x48,0x48,0x48,0x40,0x00,0x00,0x00,0x00,0x0C,0x0C,
0x00,0x00,0x00,0x00,0x01,0x01,0xFF,0x00,0x00,0x00,0x00,0x00,0x03,0x00,0xF0,0x0C,
0x03,0x00,0x00,0x00,0x07,0x80,0x40,0x20,0x18,0x07,0x00,0x00,0x01,0xC6,0x38,0x38,
0xC6,0x01,0x00,0x00,0x01,0x01,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0xFE,0x01,0x00,0x00,
0x01,0xFE,0x00,0x00,0x70,0x4C,0x42,0x41,0xFF,0x40,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0xFF,0xFF,0xFF,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x80,0x84,0x93,0xE0,0xA1,0x86,0x00,0xE0,0x21,
0x26,0xA0,0x20,0x21,0xE6,0x00,0x00,0x0F,0xC0,0x40,0x40,0x40,0x40,0x40,0x50,0x60,
0x4F,0xC0,0x40,0x40,0x40,0xC0,0x00,0x00,0x00,0x00,0x03,0x03,0x00,0x00,0x00,0x00,
0x02,0x02,0x03,0x02,0x82,0x00,0x00,0x00,0x80,0x80,0x83,0x80,0x80,0x80,0x00,0x80,
0x83,0x82,0x02,0x02,0x82,0x83,0x80,0x02,0x03,0x82,0x80,0x80,0x82,0x03,0x02,0x00,
0x02,0x82,0x83,0x82,0x82,0x00,0x00,0x00,0x00,0x01,0x02,0x02,0x01,0x00,0x00,0x00,
0x00,0x00,0x02,0x02,0x03,0x02,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0xFF,0xFF,0xFF,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x20,0x10,0x08,0xF4,0x0A,0x71,0x20,0x1F,0x80,0x60,0x1F,0xE0,0x00,
0x3F,0x00,0x00,0x00,0x04,0x04,0xFE,0x45,0x24,0x56,0x9D,0x54,0x34,0x14,0x05,0xFD,
0x02,0x02,0x00,0x00,0x00,0x00,0x0C,0x0C,0x00,0x00,0x00,0x00,0x70,0x4C,0x42,0x41,
0xFF,0x40,0x00,0x00,0x9F,0x10,0x08,0x08,0x10,0xE0,0x00,0x00,0x01,0xC6,0x38,0x38,
0xC6,0x01,0x00,0x00,0x07,0x80,0x40,0x20,0x18,0x07,0x00,0x00,0xC7,0x28,0x10,0x10,
0x28,0xC7,0x00,0x08,0xF8,0x08,0x08,0xF8,0x08,0x08,0xF0,0x08,0xF8,0x08,0x08,0xF8,
0x08,0x08,0xF0,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0xFF,
0xFF,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x0F,0x00,0x08,0x04,0x02,0x01,0x80,0x80,0x83,0x84,0x84,0x07,0x00,0x00,
0x00,0x80,0x8F,0x84,0x86,0x85,0x04,0x05,0x04,0x04,0x04,0x0F,0x00,0x00,0x00,0x00,
0x00,0x80,0x83,0x83,0x80,0x80,0x00,0x80,0x80,0x80,0x82,0x82,0x83,0x82,0x00,0x00,
0x81,0x82,0x82,0x82,0x81,0x80,0x00,0x02,0x83,0x82,0x80,0x80,0x82,0x83,0x02,0x00,
0x03,0x82,0x82,0x82,0x82,0x03,0x00,0x00,0x81,0x82,0x82,0x82,0x82,0x81,0x00,0x02,
0x03,0x02,0x80,0x83,0x82,0x00,0x03,0x02,0x03,0x02,0x00,0x03,0x02,0x00,0x03,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0xFF,0xFF,0xFF,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0x00,0x00,0x00,0x00,0x7C,0x83,0x00,0x00,0x00,
0x00,0x83,0x00,0x00,0x00,0x00,0x0C,0x0C,0x00,0x00,0x00,0x00,0x87,0x08,0x10,0x10,
0x20,0xC3,0x00,0x01,0x00,0x00,0xFF,0x00,0x00,0x01,0x00,0x00,0x03,0x00,0xF0,0x0C,

```
0x03,0x00,0x00,0x00,0x9F,0x10,0x08,0x08,0x10,0xE0,0x00,0x00,0x07,0x80,0x40,0x20,
0x18,0x07,0x00,0x00,0x9F,0x10,0x08,0x08,0x10,0xE0,0x00,0x00,0xFE,0x11,0x08,0x08,
0x11,0xE0,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
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0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0xFF,0xFF,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xE0,0x20,0x20,0x20,0x20,
0x20,0x20,0xE0,0x00,0x00,0x00,0x00,0x00,0x00,0xE0,0x20,0xA0,0xA0,0xA0,0xA0,0xE0,
0x92,0x92,0x93,0x92,0x12,0x00,0x00,0x00,0x81,0x42,0x32,0x62,0xA1,0x20,0xA0,0x40,
0x30,0x60,0xA3,0x23,0x20,0x20,0x00,0x00,0x03,0x02,0x02,0x02,0x02,0x01,0x00,0x00,
0x00,0x02,0x03,0x02,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x03,0x00,0x00,0x00,0x00,0x00,0x00,
0x01,0x02,0x02,0x02,0x01,0x00,0x00,0x00,0x03,0xF2,0x12,0x12,0xF2,0x03,0x00,0xF0,
0x11,0x12,0x92,0x12,0xF1,0x00,0x00,0x00,0x00,0x01,0x82,0x42,0xF1,0x20,0x20,0x20,
0x20,0xA0,0x60,0x00,0x00,0x00,0x00,0x00,0x00,0x20,0x20,0x20,0x20,0xA0,0x60,0x20,0x20,
0x20,0xA0,0x20,0x20,0x20,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xE0,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0xFF,0xFF,0xFF,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0xF0,0x10,0x10,0x17,0x12,0xF2,0x02,0xF2,0x12,0x12,0x17,0x10,
0xF0,0x00,0x00,0x00,0x00,0x00,0xFF,0x00,0x00,0x00,0xFC,0x04,0x06,0xF5,0x04,0x04,0xFC,0x00,
0x00,0x00,0x00,0x00,0x01,0x00,0x00,0x00,0x3D,0x25,0x25,0xA5,0x65,0xFF,0x25,0x25,0x25,0x27,
0xE0,0x00,0x00,0x00,0x00,0x08,0x08,0x08,0x08,0x08,0x08,0x08,0x08,0x08,0x08,0x08,0x08,0x08,
0x0C,0x08,0x00,0x00,0x00,0x00,0x80,0x80,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0x09,0x09,0xFF,0x00,0x00,0x00,0xFF,0x1C,0x64,0x84,0x65,
0x1C,0x00,0x00,0x00,0x02,0x11,0x11,0x28,0x28,0x24,0xE5,0x3A,0x22,0x25,0x24,0xE8,0x08,
0x18,0x08,0x00,0x00,0x00,0x00,0x24,0x26,0x25,0x24,0x22,0xFE,0x22,0x22,0x22,0x27,0x22,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0x04,0x04,0x04,0x04,0x04,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0xFF,
0xFF,0xFF,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,
0xC7,0xC2,0xC2,0xC2,0xC2,0xC7,0xC0,0xC7,0xC2,0xC2,0xC2,0xC2,0xC7,0xC0,0xC0,0xC8,
0xC6,0xC1,0xC0,0xC8,0xC4,0xC2,0xC1,0xC0,0xC1,0xC2,0xCE,0xC4,0xC0,0xC0,0xC0,0xC0,0xC0,
0xC2,0xC2,0xC2,0xC1,0xC1,0xC0,0xC0,0xCF,0xC0,0xC0,0xC1,0xC2,0xC1,0xC0,0xC0,0xC0,0xC0,
0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,
0xC0,0xC5,0xC3,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC4,
0xC3,0xC0,0xC2,0xC4,0xC3,0xC0,0xC0,0xC0,0xC7,0xC2,0xC1,0xC0,0xC0,0xC3,0xC6,0xC2,0xC0,0xC8,
0xC8,0xC4,0xC4,0xC2,0xC1,0xC0,0xC0,0xC0,0xC4,0xC8,0xC7,0xC0,0xC0,0xC0,0xC0,0xC0,0xC2,
0xC2,0xC2,0xC2,0xC2,0xC2,0xC2,0xC3,0xC2,0xC2,0xC2,0xC2,0xC2,0xC2,0xC2,0xC0,0xC0,
0xC4,0xC4,0xC4,0xC4,0xC4,0xC4,0xC7,0xC4,0xC4,0xC4,0xC4,0xC4,0xC6,0xC4,0xC0,0xC0,
0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xFF,0xFF,
};

uchar code bmp2[]={
/*--  调入了一幅图像：G:\WORK\记录文档\图片\172104 点阵图片\猫.bmp  --*/
/*--  宽度 x 高度=172x104  --*/
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
```

0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x80,0xC0,0xE0,0x70,0x70,0x38,
0x1C,0x0E,0x8E,0x0F,0x3E,0xF8,0xE0,0x80,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0xF0,0x50,0x50,0x50,0x50,0x50,0x50,0xF0,0x00,0x00,0x00,
0x00,0x10,0xF0,0x90,0x90,0x90,0xF0,0x90,0x88,0x90,0xE0,0x80,0xC0,0xB8,0x90,0x80,
0x00,0x00,0x08,0x70,0x20,0x00,0x10,0x10,0xF0,0x10,0x10,0x10,0x10,0xF0,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x80,0x80,0xC0,0xC0,0xC0,0xE0,0x60,0x60,0x70,0x30,0x70,0xF0,
0x30,0x38,0x38,0xDC,0x9E,0x07,0x03,0x01,0x00,0x00,0x00,0x00,0x38,0x26,0x21,0x27,
0x38,0x00,0x1F,0x7F,0xFC,0xE0,0xC0,0xC0,0x80,0x80,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xF8,0x28,
0x28,0x2B,0x29,0xF9,0x01,0x01,0xF9,0x29,0x2B,0x28,0x28,0xF8,0x00,0x40,0xFF,0x44,
0x44,0x24,0xFF,0x28,0x08,0x08,0x88,0x7F,0x88,0x08,0x08,0x08,0x00,0x01,0x01,0x01,
0xFF,0x00,0x82,0x02,0xFF,0x02,0x02,0x02,0x00,0xFF,0x00,0xC0,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x80,0xC0,0xE0,0x60,0x30,0x38,0x38,0x4C,0x4E,0x46,0x47,0x83,
0x83,0x81,0x01,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x01,0x02,0x0C,0x18,0x20,
0x43,0x87,0x19,0x22,0xC2,0x84,0x04,0x04,0x08,0x08,0x18,0x10,0x20,0xC0,0x00,0x00,
0x00,0x00,0x01,0x01,0x03,0x03,0x07,0x07,0x0E,0x1C,0x38,0x38,0x70,0xE0,0xC0,0x80,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x03,0x01,0x01,0x01,0x81,0x83,
0x80,0xC0,0xC3,0xC1,0xC1,0xC1,0xC1,0xE3,0xE0,0xE0,0xE0,0x60,0x60,0x60,0x67,0x60,
0x64,0x62,0xE1,0xE0,0xE0,0xE1,0xC6,0xC2,0xC0,0xC0,0xC0,0x80,0x83,0x81,0x80,0x00,
0x03,0x00,0x00,0x00,0x00,0x01,0x02,0x01,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x80,0x80,
0xC0,0xE0,0x60,0x70,0x30,0x30,0x38,0x18,0x18,0x18,0x18,0x18,0x1C,0x1E,0x0E,0x07,
0x03,0x01,0x00,0x00,0x01,0x03,0x0E,0x3E,0xE4,0x04,0x0C,0x08,0x18,0x11,0x21,0x42,
0x82,0x04,0x0C,0x18,0x30,0x60,0xC0,0x00,0x00,0x00,0x00,0x00,0x00,0x01,0x02,0x0C,
0x70,0xC1,0x03,0x02,0x06,0x04,0x04,0x04,0x02,0x03,0x00,0x00,0xC0,0x60,0x70,0x30,
0x98,0x88,0xDC,0x58,0x58,0x48,0x48,0xD8,0xF8,0xFE,0x33,0x0F,0x0F,0x1E,0x38,0x70,
0xB8,0x3C,0x1C,0x0C,0x0E,0x06,0x07,0x07,0x03,0x03,0x03,0x01,0x01,0x01,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x01,0x01,0x01,0x01,0x03,0x03,0x03,0x07,0x07,0x06,
0x0E,0x0E,0x0C,0x1C,0x18,0x18,0x30,0x70,0x60,0xE0,0xC0,0xC0,0x80,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x01,0x03,0x07,0x07,0x0E,0x1C,0x3C,
0x78,0xF0,0xE2,0xC3,0x86,0x0A,0x1B,0x33,0x1F,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x03,0x1E,0x70,0x80,0x00,0x00,0x00,0x00,0x00,0x03,0x0E,0xF8,
0x00,0x00,0x00,0x03,0x06,0x18,0x60,0x80,0x00,0x00,0x00,0x00,0x00,0x01,0x3E,0xE0,
0x00,0x00,0x00,0x00,0xE0,0x3C,0x06,0xE7,0x39,0x0C,0x02,0x01,0x00,0x00,0x00,0x00,
0x00,0x00,0xE0,0xFC,0xFC,0x59,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x03,0xFC,0x00,0x00,

0x00,0x00,0x80,0x80,0x00,0x40,0x40,0x20,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
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0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x01,0x03,0x07,0x0E,0x1E,0x1C,0x78,0xF0,0xC0,
0x80,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x01,0x03,
0x07,0x1F,0xFE,0xFC,0xF0,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
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0x00,0x00,0x00,0x01,0x03,0x0C,0x18,0x30,0x20,0x20,0x30,0x1F,0x00,0x00,0x00,0x00,
0xFF,0xF0,0x3F,0x01,0x00,0x00,0x00,0x00,0x80,0xC0,0xE0,0xF0,0xF8,0x7F,0x1F,0x17,
0x01,0x80,0x40,0x20,0x20,0x90,0x88,0xC8,0xFC,0x3F,0x22,0x12,0x11,0x81,0x88,0x88,
0x08,0x44,0x44,0x44,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x80,0xC0,0x40,0x60,0x20,0x30,0x10,0x10,0x18,0x08,0x08,0x0C,0x0C,0x04,0x04,0x04,
0x04,0x04,0x04,0x04,0x04,0x04,0x04,0x08,0x08,0x08,0x18,0x10,0x20,0x60,0x40,0x80,
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0xE0,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x80,0x80,0xC0,0xE0,0xE0,0x70,0x70,0x78,0x78,0x78,0x7B,0xDF,
0xBF,0xBF,0xF0,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x80,0xC0,0x40,0x70,0x78,0x68,
0x88,0x88,0xCC,0x48,0x4C,0x46,0x6E,0x23,0x23,0x33,0x33,0x32,0x32,0x32,0x32,0x12,
0x16,0x14,0x14,0x14,0x34,0x28,0x38,0x30,0x30,0x20,0x20,0x40,0x43,0xDF,0xF8,0x40,
0x60,0x60,0xC3,0x07,0x07,0x03,0x03,0x10,0x09,0x54,0x32,0x2B,0x15,0xD0,0x6A,0x29,
0x1D,0x0C,0x06,0x03,0x02,0x01,0x01,0x01,0x01,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xC0,0x60,0x38,0x0C,0x06,0x03,0x01,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x01,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x01,0x1F,0xFF,0xF0,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xF8,0xFE,0x9F,
0x87,0xC3,0x61,0x20,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x01,0x03,0x0F,
0x38,0xE0,0xC0,0x40,0x40,0xFC,0xE7,0xFB,0x8E,0x06,0x03,0x01,0x01,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x80,0x80,0x80,0xC0,0xC0,0xE0,0xF0,0x58,0x7C,0x18,
0x10,0x00,0x00,0x00,0x00,0x00,0x40,0x80,0x87,0x89,0x8C,0xC4,0x44,0x36,0x19,0x10,
0x08,0x0C,0x07,0x00,0x80,0x40,0x70,0x3C,0x1F,0x07,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
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0xF9,0xF1,0xE1,0xC1,0x81,0x01,0x00,0x00,0x00,0x00,0x00,0x00,0x01,0x07,0x07,0x07,0x05,
0x83,0x47,0x43,0xA3,0x53,0x51,0x2B,0x98,0xD4,0x68,0x6A,0x36,0x29,0x27,0x24,0x22,
0x20,0x20,0x20,0x20,0x20,0x20,0x30,0x10,0x10,0x18,0x08,0x08,0x04,0x06,0x02,0x01,
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0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x01,0x81,0xE3,0x73,
0x3F,0x1F,0x8F,0x4E,0x66,0x26,0x14,0x4C,0x24,0x16,0x0E,0x05,0x06,0x06,0xE3,0x32,
0x0B,0x07,0x03,0x06,0x18,0x30,0xC0,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
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0x03,0x03,0x02,0x06,0x04,0x84,0x88,0xD8,0x70,0x60,0x20,0x20,0x10,0x10,0x11,0x0A,
0x0E,0x0C,0x0C,0x04,0x04,0x04,0x04,0x04,0x04,0x06,0x06,0x06,0x02,0x02,0x02,0x02,
0x02,0x02,0x03,0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x80,0xC0,0xF0,0x7C,0x3F,0x07,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x0F,0x1F,0x3C,0x38,0x7C,0xE6,0xE0,
0xE4,0xF3,0xC8,0x80,0x80,0x80,0x80,0x80,0x00,0x81,0x80,0x80,0x80,0x80,0x00,0x00,
0x80,0x00,0x81,0xFE,0x80,0x80,0x80,0x80,0x80,0xC0,0xC0,0xC0,0xC0,0xC0,0xE0,0x60,
0x60,0x70,0x70,0x30,0x38,0x38,0x1C,0x1C,0x1C,0x0E,0x0E,0x07,0x07,0x07,0x03,0x03,
0x0F,0x1F,0x3C,0x3E,0x73,0xF0,0xF0,0xFC,0xF6,0xFB,0x79,0x38,0x1C,0x0C,0x06,0x06,
0x03,0x01,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
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0x03,0x03,0x01,0x01,0x01,0x01,0x01,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xC0,0xF0,0xFC,
0x3E,0x1F,0x07,0x03,0x01,0x00,0x00,0x00,0x00,0x00,0x00,0x80,0x00,0x80,0x80,0x80,
0x80,0x80,0x80,0x80,0x80,0x80,0x80,0x80,0x80,0x80,0x80,0x80,0x80,0x80,0x80,0x80,
0x80,0x80,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xC0,0xE0,0xE0,0x60,0x60,0x70,0x30,
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0x00,0x00,0x00,0x00,0x00,0x00,0xE0,0xF8,0x7F,0x7F,0x7B,0x3C,0x1C,0x1C,0x0E,0x0E,
0x0E,0x07,0x07,0x07,0x07,0x03,0x03,0x03,0x03,0x03,0x03,0x01,0x01,0x01,0x01,0x01,
0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x01,
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0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
};
```

```
uchar code bmp_4gray_1[4472] = { /* 0X32,0X02,0X00,0XAC,0X00,0X68, */
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
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0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
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0X00,0X00,0X00,0X00,0X40,0X40,0X40,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
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0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0XC0,0XF0,0XFC,0XFC,0XFE,0XFF,0XFF,
0XFF,0XFF,0XFF,0XFF,0XFF,0XFE,0XFC,0XFC,0XF0,0XC0,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
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0XFC,0XFC,0XFC,0XFC,0XFC,0XFC,0XFC,0XF4,0XF0,0XD0,0XC0,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X0C,0XF0,0X00,0X00,0XF0,0X30,0X30,0X30,0X30,0X30,0X30,0X30,0XF0,0X30,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
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0XFF,0XFF,0XFF,0X3F,0X2F,0X0F,0X03,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
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0XFF,0XFF,0XFF,0XFF,0XFF,0XFF,0XFF,0XFF,0XFC,0XD0,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0XC0,0XC0,0XC0,0XC0,0XC0,0XFC,0XC0,0XC0,0XC0,
0XC0,0XC0,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X0C,0XF0,0X00,0XF0,
```

0X00,0X30,0X30,0X0F,0X00,0XC0,0X03,0X0C,0X3C,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0XFE,0XFF,
0XFF,0XFF,0XFF,0XFF,0XFF,0XFF,0XFF,0XFF,0XFF,0XFF,0XFF,0X3F,0X0F,0X03,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X03,0X0F,0X3F,0XFF,0XFF,0XFF,0XFF,0XFF,0XFF,0XFF,
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0X00,0X30,0X30,0X30,0X30,0X30,0XF0,0X3F,0X30,0X30,0X30,0X30,0X30,0X30,0X30,0X30,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0XC0,0XC0,0X3C,0X03,0X00,0X0C,0X0C,0X0C,
0XCC,0XFF,0XCC,0X0C,0X0C,0X0C,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,0X00,
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