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IBM-PC/XT

培训上机实例集

(修订本)

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前 言

本册所收集的PC机实例，几乎全部文本都用KH-16或PC/XT机运行通过。经科海培训中心PC培训班连续两年的实践，其中大部分例题是各项讲课老师在课堂布置的上机实例，也有取自PC机系统软件中的教学样板。有少数是各期学员自编的优秀作品。

本册例题适合于一月为期的IBMPC短期培训约15—30小时与PC/XT机应用培训上机实习教学参考，例题量稍多学员根据个人条件选做在规定机时内未做定，可带回本单位继续自练。

各课程名称	上机机时
硬件系统	1—2学时
DOS系统	3—4学时
ASM, MASM	3—4学时
BASIC	2—4学时
CP/M 86	2—3学时
dBASE, CdBASE	6—8学时

由于短期培训，学员没有完整的参考资料，若被错误信息包围，困难较多。

今应学员要求，将各期培训中硬件、软件上机实例，运行结果整理印发，若能对学员及教学有利，则为幸甚。

本册说明简要图表较多，经数期试用之后，此次修订纠正许多错漏，今将微机应用班上机实习纲要补充为第七章。并在附录增加了PC/XT/AT DOS 3.0系统工具使用说明，希望本册既能作培训实例，又可作程序设计测试的有用工具。因时间匆促，例题不善之处难免，待用户与专家指正。

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一. 硬件系统

硬件课程课堂讲解后, 若时间允许可适当安排些部件设置实习较好, 这里将PCTest软盘与异步信口Asynchronous communication Ver 2.00使用, 与打印机字型设定作为三例介绍为下:

1.1 PCTEST测试盘使用: 此盘有目录如下所示

```
A> dir/w  
COMMAND COM PCTETT COM CPU EXE VIDEO EXE MEDIUM DAT HIGH DAT PRINTE-  
R EXE MUSIC EXE BASA EXE TEST BAS  
SCI EXE KEYBOARD EXE BASICA EXE CHKDSK COM DISKCOPY COM AUTOEXEC BAT  
16 File(s)
```

插盘在A驱动器, 开机批命令自启动引出如图所示功能任选菜单。

```
A> pctset  
PC COMPATIBILITY TESTS, VER 1.20  
Enter Letter of Drive containing PCTEST program?  
COLUMBIA DATA PRODUCTS presents.....
```

PERSONAL COMPUTER COMPATIBILITY TEST

```
1 RUN ALL TESTS  
2 PROCESSOR TEST  
3 VIDEO TEST  
4 DEYBOARD TEST  
5 PRINTER TEST  
6 MUSIC TEST  
7 BASIC LANGUAGE TEST  
8 PLAY"SPACE COMMANDERS"GAME  
Enter Selection(1-8)
```

PROCESSOR TEST

菜单选2 CPU测试

Press any key to begin test. PROCESSOR EXECUTION SPEED TEST;
The number below should count at a one-second rate.
Press [Esc]key at any time to reset time to 00:00

PRESS ANY OTHER KEY TO CONTINUE TO NEXT TEST.

00:xx

EQUIPMENT REPORT (INTERRUPT 11) :

The following equipment is reported to be Present:

1 Parallel Printer

Game Adapter is not installed

1 RS-232 Serial Device

2 Didkette Drives

Video is 80 column color graphics INT 11H 设备检查报告

打(1—8)可任选一种测试内容。若打1就连续从上图功能2—7进行各部件测试, 这些测试都用汇编可执行程序进行, CPU测试可显示处理机时钟走动, 其他项测试要打入任意键继续。功能3 video测试CRT页面显示。功能4键盘测试。功能6 MUSIC测试, 用汇编程序试几种乐曲, 如下图任选菜单。这些乐曲与DOS 2.0 SAMPLE.BAS不同。功能7进入BASIC测试。先显示一页英文人机对话说明, 然后返回DOS, 你必须调用 BASICA.EXE

例: A > BASICA TEST才能进入BASIC测试。

系统测试中还有INT11 部件检查, 内存容量 (INT 12) 报告, 测得系统实际内存容量值。

VIDEO TEST

菜单选3 CRT测试

Press any key to begin test.

KEYBOARD TEST

菜单选4 键盘测试

Press any key to begin test.

PRINTER TEST

菜单选5 打印机测试

Press any key to begin test.

MUSIC TEST

菜单选6 音调测试

Press any key to begin test. MUSIC TEST:

Select one of the following :

- 1-"C" Scales
- 2-On Top of Old Smoky-Traditional
- 3-William Tell Overture-Rossini
- 4-Beautiful Dreamer-Foster
- 5-Theme from "Star Trek"-Courage
- 6-Kum Ba Ya-Traditional

? 1 乐曲测试任选1—6

BASIC LANG. TEST

菜单选7 BASIC语句测试

Press any key to begin test."BASIC LANGUAGE INTERPRETER TESTt:
An major requirement for compatibility is the BASIC and ADVANCED
BA BASICSIC

Language interpreters. The BASIC Language is on important aspect of
the

computer for the following veasons:

- (1) Approximately one-third of all application programs require
BASIC or BASICA in order to run.
- (2) These BASIC interpreters provide access to nearly all featrues
of the computer. The Graphics, Sound, Disk File and Input/Ou-
tput
Device Control are featores not found in some other BASIC'S.
- (3) BASIC is the most commonly-used Personal Computer Language.
It is easy to learn and well documented for first-time computer
programmers. This allows the user to write custom applications
and (in some cases) to modify purchased application programs for
specific requirements.

PRESS ANY KEY TO CONTINUE...

* * * * IMPORTANT * * * *

If the BASIC interpreter is not provided on the computer's
operating system (DOS) disk (which was booted at the beginning of
these tests), then insert a disk containing the BASIC interpreter in
the boot drive at this time.

WHAT DRIVE CONTAINS THE BASIC INTERPRETER?

Enter letter A, B, C,or x if there is no BASIC>>> a
TO TEST BASIC, ENTER A COMMAND EXACTLY AS SHOWN BE-
LOW, THEN PRESS ENTER KEY:

A: BASICA: TEST 虽然机器提示如此

A> 只打 BASICA TEST 能进入 BASIC 测试态

进入 BASICA 测试, 功能键检查, 屏幕显示如图所示 CRT 底部屏幕功能键内容不断变化。

屏幕进入 BASICA 测试

FUNCTION KEY statements

-
- (1) DEY ON/KEY OFF: The function key display at the bottom of the screen should blink several times.
 - (2) Defind KEY: ALL function keys should now be defined as 'ABC-DEF'.
 - (3) ALL function keys should return to their original definition one at a time.

REPEAT this test or CONTINUE <enter R of C>? 打C往下走

BASIC 乐曲语句试验:

在屏幕显示 Do Re Me 等8字符的同时, 可听到乐曲声。

1LIST 2RUN 3LOAD" 4SAVE" 5CONT 6"LPT: 7TRON 8TROFF 9KEY 0SCREEN

SOUND and PLAY statements

-
- (1) SOUND: This should be a sliding note lasting approximately one second.
 - (2) PLAY FOREGROUND: Each note should play when its name is printed.
 - (3) PLAY BACKGROUND: Each note should play at a slow tmppo, but all notes will be printed as a group when the first note is playing.

Do Re Mi Fa So La Ti Do

Do Re Mi Fa So La Ti Do

曲调伴奏

REPEAT this test or CONTINUE <enter R or c>?

彩色作图语句试验可看见 CRT 幕面显示。

COLOR GRAPHICS

-
- (1) CIRCLE: A circle should appear. ; 画园
 - (2) LINE: An equator is now drawn ; 划线
 - (3) PAINT: The top half is now painted magenta. ; 填色
 - (4) DRAW: A cyan ; 画棱形

diamond is now
drawn in the
bottom half.

REPEAT OR CONTINUE <enter R or C> ?

BASIC检查中亦有内存检查报告及ROM检查报告如下所示

The above configuration was reported by the computer's INT 11 function.

It must correctly describe the actual devices present.

PRESS ANY KEY TO CONTINUE...

MEMORY SIZE REPOST (INTERRUPT 12):

The computer's INT 12 function reports memory size is >>> 512K bytes <<<

This test program has measured memory size to be >>> 512K bytes <<<

If the above numbers are different, verify that the memory size switches in the computer (if any) are properly set for the amount of memory present

If the switches are incorrectly set, correct them and rerun this test.

PRESS ANY KEY TO CONTINUE...

READ ONLY MEMORY (ROM) CONFIGURATION:

To achieve a high degree of compatibility, the computer should contain a ROM-based BIOS program, which interfaces the system to the keyboard, video display diskette drives, printer, and serial I/O ports. It should exist from FE000 (or lower) to FFFFF.

This computer contains ROM at the following locations:

from C8000 to C8FFF

from F6000 to FFFFF

PRESS ANY KEY TO CONTINUE...

TIME OF DAY CLOCK (INTERRUPT 1A):

The number, below should display minutes and seconds, beginning with 00:00

Press (Esc) key at any time to reset time to 00:00

PRESS ANY OTHER KEY TO END TEST.

到此BASIC测试完毕退回DOS, 可选SC1游戏。(功能8:打飞碟游戏)

1.2硬件系统:RS232联机通讯实习。采用IBM异步通讯软件Ver2.00启动后如下所示:

autoexec

B> date

Current date is the 1-01-1980

Enter new data:

B> time

Current time is 0:01:04.64

Enter new time:

B>rs232int

B>basic terminal/c:o/f:2

IBM Personal Computer

Asynchronous Communications Support

Version 2.00 (C) Copyright IBM Corp.

1981, 1982

Implemented by

The IBM Cambridge Scientific Center

Enter screen width (40 or 80) 80

插此盘在驱动器A:，批命令自动引入异步通讯状态。打80回车等待片刻即自显示：终端方式选择菜单如图所示。

Terminal Selection Menu

Choose:

1 Dow Jones Service THE SOURCE

2 VM/370 Terminal

3 TSO Terminal

4 User Specified Terminal

5 Personal Computer Communications

6 Other Terminal Specification File

7 Disconnect Communications Line

8 Exit Program

Type number and press Enter 5 (PC通信方式)

在图上菜单中选功能5——PC通信——文件传送，资源共享。在功能5之后出现另一菜单如下在此菜单上选2，设定发方和问要送文件名打要送文件名。

Function Selection Menu

Choose:

1 Send File Data to Host

2 Transmit a Personal Computer File

3 Receive a Personal Computer File

4 Return to Terminal Operation

5 Return to BASIC

6 Return to Terminal Selection Menu

进入PC通信后打F2键出现此功能选用菜单，若要发文件，在此要设定一方收，另一方发。

Type number and press Enter (打2发，打3收)

在设定收或发方之后屏幕进入终端状态就可看见文件收发过程。

No characters entered

Enter name of local file to be sent to host

cirl.bas ; 打入要发的文件名cirl.bas

Wait for return character from host after each line sent (Y or N)?
n

Starting file transmission ; ASCII 字符文件开始发送内容显示

10 SCREEN 0:SCREEN 1

20 K=150:KI=0

30 KK=0:KY=1

40 FOR I=1 TO 16 STEP 1

50 IF I<10 THEN II=I*0.8 ELSE II=I

60 KI=4+KI:K=K-

70 CIRCLE(160, 100-KI), K,I,,6.28,.3

80 CIRCLE(160, 100+KI), K,I,,6.28,.3

90 CIRCLE(160, 100-KI), K-3,2,,6.28,.3

100 CIRCLE(160, 100+KI), K-3,,1,,6.28,.3

110 IF KK=0 THEN KK=1 ELSE KK=0

120 NEXT

130 PRINT CHR\$(27); "W"

140 END

File sending complete ; 发送完毕标志

Press Enter to return to terminal operation

Enter name of local file where received file is to be saved

ascii.bas ; 在收方要打接收文件名

Ready to receive file

Ready to send ASCII.BAS

Starting file transmission

Transmission completed ; 文件接收者CRT

Press Enter to return to terminal operation ; 右下角有接收标志 接收

↓
RC 6

Enter name of local file to be sent

ascii.bas 文件发送在4.终端方式

Ready to send ASCII.BAS

亦可实现 发送

Ready to receive file

发方屏幕右下 ↓

Starting file transmission

角有发送标志 SN 6

Transmission completed

Press Enter to return to terminal operation

在功能4中联机对话——电子邮件式，亦可作文件传送。

下面是二台PC机用RS232电缆联机后，双方CRT，同样显示任一方键入信息。选择

功能4, 终端对话方式, 双方任一方键入字符, 对方同样显示超小网络式“电子邮件”作用有F7打印功能键与F8记盘功能键

You are back as a terminal

Welcome, this is a demonstration of computers talking with each other two of KH-16 computer systems connected with rs232 cable, they talk and talk just like good fields do.

the contents of their talking may be copied down by the FX-100 printer with this an electronic mail completed, other word this machine may be used in any office as automatic tool

Would you try on key to talk with any one?

屏幕右下方功能键三个 按F7打印屏幕内容, 按F8将对方信息取文件名记盘 F10提示键

F7 PRINT F8 FILEWRITE F10<HELP

A> print dir232.txt

Name of list device [prn] : prn

Resident part of PRINT installed

Volume in drive A has no label

Directory of A:o

COMMAND	COM	ANSI	SYS	FORMAT	COM	CHKDSK	COM	SYS	COM
DISKCOPY	COM	DISKCOMP	COM	COMP	COM	EDLIN	COM	MODE	COM
FDISK	COM	BACKUP	COM	RESTORE	COM	PRINT	COM	RECOVER	COM
ASSIGN	COM	DIR232	TXT	GRAPHICS	COM	SORT	EXE	FINK	EXE
MORE	COM	BASIC	COM	BASICA	COM	EXEBIN	EXE	LINK	EXE
DEBUG	COM	ARI	BAS	SAMPLES	BAS	MORTGAGE	BAS	COLORBARBA	S
MUSIC	BAS	DONKEY	BAS	CIRCLE	BAS	PIECHART	BAS	SPACE	BAS
BALL	BAS	COMM	BAS	MYFILE	BAT	RS	COM	TIMER	COM
DR	COM	SD	COM	DISKTEST	COM	DR	UOL	SUPRT	EXE

60 File(s) 7168 bytes free

异步通信盘应用:

1. 联机对话

2. 文件传送二种功能起了小网络: 电子邮件与资源工享作用。

在PC机问一方要调看另一方文件目录的方法比较容易实现: 利用DOS命令

A>DIR/W>DIR232.TXT能自动将显示目录建立目录文件

DIR232.TXT。

选用功能4或5, 可以将目录文件内容发送给对方。

利用上述命令形成的目录文件，打印结果。其形成过程见如下所示

A> DIR/W> DIR232.TXT

A> DIR/W

Volume in drive A has no label

Directory of A:\:

COMMAND	COM	TERMINAL	BAS	TERMINIT	BAS	UMMOD	TER	TSOMOD	TER
PCMOD	TER	DOWMOD	TER	BASIS	COM	RS232INT	EXE	UPDATE11	BAT
AUTOEXEC	BAT	UPDATE10	BAT	MESSAGE		AAA	LIB	RS_32	EXE
CREAT	BAS	RND	BAS	ASCII	BAS	JAZZ	BAS	CIR1	BAS
SNM	BAS	GET	BAS	QQQ	BAS	BASICA	COM	HANCHH	BAS
SUBRT	BIN	SUBRT	BAS	SUBRT	EXE	DIR232	BAT	MODE	COM
PC	TER	DDD	BAS	ASDF		DIR232	TXT	DIR232	

35 File(s) 201728 bytes free

A> type dir232.txt

Volume in drive A has no label

Directory of A:\:

COMMAND	COM	TERMINAL	BAS	TERMINIT	BAS	UMMOD	TER	TTOMOD	TER
PCMOD	TEB	DOWMOD	TER	BASIC	COM	RS232INT	EXE	UPDATE11	BAT
AUTOEXEC	BAT	UPDATE10	BAT	MESSAGE		AAA	BBB	RS_32	EXE
CREAT	BAS	RND	BAS	ASCII	BAS	JAZZ	BAS	CIR1	BAS
SNW	BAS	GET	BAS	QQQ	BAS	BASICA	COM	HANCHB	BAS
SUBRT	BIN	SUBRT	BAS	SUBRT		DIR232	BAT	MODE	COM
PA	TER	DDD	BAS	ASDF	EXE	DIR232	TXT	DIR232	

35 File(s) 201728 bytes free

1.3 打印机字型设定

例举如下例BASIC字型设定LPRINT语句。系统引入CCDOS2.1用FX-100 9针打印机。运行下列程序之后可看到打印机运行结果与说明。较容易选定那种字型该选用哪条语句。

CCDOS 2.1配FX-100 9针打印机

10 WIDTH"LPT1:", 80

15 LPRINT

20 LPRINT CHR\$(27)+CHR\$(73)+CHR\$(65); "汉";

30 LPRINT CHR\$(27)+CHR\$(73)+CHR\$(66); "字";

40 LPRINT CHR\$(27)+CHR\$(73)+CHR\$(67); "系";

50 LPRINT CHR\$(27)+CHR\$(73)+CHR\$(68); "统";——D

为最大型字

55 LPRINT

60 LPRINT CHR\$ (27) + CHR\$ (73) + CHR\$ (73); "汉"; ---此行语句最小(字型 I)

62 LPRINT CHR\$ (27) + CHR\$ (73) + CHR\$ (74); "字";

64 LPRINT CHR\$ (27) + CHR\$ (73) + CHR\$ (75); "系";

66 LPRINT CHR\$ (27) + CHR\$ (73) + CHR\$ (76); "统";

68 LPRINT

70 LPRINT CHR\$ (14); "ibm computer";

80 LPRINT CHR\$ (15); "ibm computer";

85 IPRINT

90 LPRINT CHR\$ (27) + CHR\$ (73) + CHR\$ (69); "汉";

92 LPRINT CHR\$ (21) + CHR\$ (73) + CHR\$ (70); "字";

93 LPRINT CHR\$ (27) + CHR\$ (73) + CHR\$ (71); "系";

94 LPRINT CHR\$ (27) + CHR\$ (73) + CHR\$ (72); "统";

100 LPRINT CHR\$ (10) + CHR\$ (13)

105 LPRINT CHR\$ (27) + CHR\$ (73) + CHR\$ (73);

110 LLIST

120 END

< 汉字系统 > 字型略

20行~50行打出字型

(Esc + I + D最大)

60~66行打出字型

(Esc + I + I最小)

ibm computer • ibm computer

90~94行打出字型, 各转90度

例: 要最小汉字必须用第60行语句ESC + I + I但是对各种不同型号的打字机, 会有不同的结果, 这一点必须实际测试。

在下列题中看出20—60行设控制码以汉字型式对英文字符不作用。“SO”放宽—(70行), “SI”紧缩—(80行), “ESC + E”加粗——90行的执行结果在打印纸上显然易见。

ibm computer

imb computer

ibm computer

ibm computer

ibm computer

ibm computer

ibm computer

ibm computer

10 WIDTH "lpt1:", 80

20 LPRINT CHR\$ (27) + CHR\$ (73) + CHR\$ (65); "ibm computer";

30 LPRINT CHR\$ (27) + CHR\$ (73) + CHR\$ (66); "ibm computer";

40 LPRINT CHR\$ (27) + CHR\$ (73) + CHR\$ (67); "ibm computer";

50 LPRINT CHR\$ (27) + CHR\$ (73) + CHR\$ (68); "ibm computer";

60 LPRINT CHR\$ (27) + CHR\$ (73) + CHR\$ (69); "ibm computer";

70 LPRINT CHR\$ (14); "ibm computer";

```

80 LPRINT CHR$ (15); ibm computer",
90 LPRINT CHR$ (27) + CHR$ (69); "ibm computer",
100 LPRINT CHR$ (10) + CHR$ (13)
110 LLIST
120 END

```

李白诗是汉字输入练习样板，若能在15—30分钟内打出此诗者，初步掌握汉字输入法采用CCDOS 2.1配FX-100打印选J型字结果。

李白诗

床	前	明	月	光
疑	是	地	上	霜
举	头	望	明	月
低	头	思	故	乡

用BASIC语句紧缩〔经过LPRINT CHR\$ (27); "II"〕或CCDOS2.0/2.1CT-RL + F10选I字型都能选较小字型。

```

A>9P
LBS

```

李白诗

床	前	明	月	光
疑	是	地	上	霜
举	头	望	明	月
低	头	思	故	乡

用CCDOS2.0 (CCBIOS)配FX-100打印机经过ALL9P程序设定。有较大A-P16种字型用KH9P设定，有最小字型。所以说汉字打印字型有许多因素，CCDOS版本，打印机型号，及其设定程序都有明显关系。

FX-100打印机内部DIP开关还能设定西文紧缩字型。

M2024或M1724打印机

A>type b:LBS

BROTHER16命令J型字

李白诗

床	前	明	月	光
疑	是	地	上	霜
举	头	望	明	月
低	头	思	故	乡

FONT.BAS 16字型设定文本

```
10 REM CHINESE FONT TEST
```

```
20 LPRINT CHR$ (27) + CHR$ (73) + CHR$ (67); "BROTHE16 十六  
字型"
```

```
30 FOR I= 0 TO 15
```

```
40 A = 65 + I
```

```
50 LPRINT CHR$ (27) + CHR$ (73) + CHR$ (A); CHR$ (A); "型:";
```

```
60 PRINT "汉字系统"
```

```
70 LPRINT "汉字系统"; "THE INSTITUTE OF COMPUTING TECHNO-  
LOGY"
```

```
80 LPRINT:LPRINT
```

```
90 NEXT I
```

```
100 LPRINT CHR$ (27) + CHR$ (73) + CHR$ (67)
```

```
110 END
```

运行此程序循环显示CCDOS2.0/2.1 A-P 16种字型

<汉字系统>字型略

二、PCDOS2.00系统

2.1 EDLIN—文本建立

PC DOS系统EDLIN命令可以建立多种源程序文本。亦可将老文本调来作增删修改。

```
A> edlin autoexec.bat
```

EDLIN命令

```
End of input file
```

```
• L
```

修改autoexec.bat文本

```
1: • dir/w
```

```
2: • type dr.doc
```

L命令调入

```
3: • basica music
```

```
• 3d
```

取消第三行

```
• L
```

```
1: dir/w
```

```
2: type er.doc
```

```
• 2
```

修改第二行

```
2: • type dr.doc
```

```
2: • copy dr.doc
```

```
• L
```

改后LIST查看

```
1: dir/w
```

```
2: • copy dr.doc
```