

Message	Meaning
Unrecognized Destination	Check command line for valid destination.
Use: STAT d: = RO	An invalid STAT drive command was given. The only valid drive assignment in STAT is STAT d: = RO.
VERIFY ERROR: -{filespec}	When copying with the V option, PIP found a difference when rereading the data just written and comparing it to the data in its memory buffer. Usually this indicates a failure of either the destination disk or drive.
XSUB ACTIVE	XSUB has been invoked.
XSUB ALREADY PRESENT	XSUB is already active in memory.
Your input?	If CP/M cannot find the command you specified, it returns the command name you entered followed by a question mark. Check that you have typed the command line correctly, or that the command you requested exists as a .COM file on the default or specified disk.

Index

A

ABORTED I-1
 AC adapter 2-1
 Acoustic coupler 3-76, 4-26, 4-42
 connection 4-42
 A/D converter see Analog/Digital converter ADCVRT subroutine 5-34
 example of use H-1
 Afn 3-5
 ALARM 2-22, 2-27, 2-47
 setting 2-27, 2-29
 <ALARM MSG> 2-28
 ALARM string 2-27
 Ambiguous file names 3-5
 Analog/Digital converter 1-9, 4-37
 example of use H-1
 location 4-37
 Arrow keys 2-14
 Alphanumeric keys 2-11
 ASCII codes E-1
 printers and E-2
 table E-3, E-4, E-5, E-6, E-7, E-8
 ASM (8080 assembler) 3-92
 error messages I-1
 Assembly language programming 3-92, 5-1
 AUTO POWER OFF time 2-42, 2-47, 3-61
 Auto repeat keys 2-11
 controlling using ESC sequence A-17
 AUTOSTART 2-23, 2-31, 2-32, 2-47
 AUTOSTART string 2-32
 rules for setting up 2-34

B

Backspacing 2-15
 BAD DELIMITER I-2
 Bad load I-2
 Bar code reader 4-37
 BASIC 1-10, 2-20
 CALL and BIOS calls H-4

- from the MENU 2-40
- Microcassette and 4-10
- programs and the MENU 2-40, 2-41
- resident 2-35
- restarting from CP/M command line 3-28
- screen modes in 2-50
- setting parameters from 2-48
- Submit files from 3-57
- Basic Disk Operating System (BDOS) 2-21
- BAT: 3-14, 5-2
- Battery C-1
 - charging 2-2, C-1
 - charge problems C-2
 - charge Time 2-3
 - insertion 2-2
 - length of use on a charge 2-2
 - replacing C-4
 - Switching off during extended storage C-2
- BDOS 2-21, 5-1
 - function calls 5-4
 - location of 5-8
- Bdos error on d: I-2
- Bdos error on d: bad sector I-2
- Bdos error on d: file R/O I-2
- Bdos error on d: select I-2
- BEEP subroutine 5-20
- BIOS 5-1
 - example programs Appendix H
 - interface 5-9
 - subroutine functions 5-10
 - table of entry addresses 5-10
- Blank screen 2-3, 2-20
- Books about CP/M 3-93
- BOOT subroutine 5-11
- Break "x" at c I-2
- BS key 2-15
- Buffer (keyboard) 2-12

C

- CALLX subroutine 5-32
- Cannot close I-3
- Cannot read I-3
- CAPS LOCK 2-12
- CAPS LED 2-12
- Carriage return 2-14
- Carriage handle 1-5

- CCP 2-21, 5-1
- Central processor units 1-8
- Change device assignments 3-46
- Changing character sets 3-74
- Changing disks 3-8
- Changing parameters (see System Display and CONFIG) 2-49
- Changing Roms 3-9
- Changing Tapes 3-9
- Character deletion commands 3-10
- Character generator ROM A-5
- Character printing using ESC sequence A-14
- Character set (see also DIP switch setting) 2-47, 3-74, A-6
- Charging battery 2-2, C-1
- CHARGE BATTERY C-1
- Charge time 2-3
- Checksum error I-3
- Clear line from cursor to end A-7
- Clearing
 - the screen 2-15, 2-52, A-5
 - from cursor to end A-7
- Clock module 2-21, 2-27
- CLR key 2-15
- COM file 3-4
- Command file 3-4
- Command buffer overflow I-3
- Command too long I-4
- Communication using PIP 3-38
- Communications 3-75
 - cable for PX-8 to PX-8 4-26
 - with QX-10 computer 3-79
- CON: 3-13, 5-2
- CONFIG program 2-8, 2-16, 2-18, 2-23, 2-29, 2-50, 3-62
 - parameters changed by 2-47, 3-62
- CONIN subroutine 5-12
- CONOUT subroutine 5-12
- Console Command Processor(CCP) 2-21
- Console ESCAPE sequences A-1
- CONST subroutine 5-11
- Control codes 2-12
- Continue mode 2-19, 2-20, 2-32
- COPYDISK 3-91
- Copying files (see PIP) 3-35
- Copying Floppy Disks 3-91
- Correct error I-4
- Counter of tape 4-5
- CP/M 1-10, Chapter 3
 - built in commands 3-16
 - configuration 5-1
 - disk utilities 3-91

- finding out more 3-93
- function keys assignments 3-62
- function key display 3-64
- program utilities 3-91
- CP/M command line 2-20
 - and character 2-13
 - and cursor keys 2-14
 - and MENU 2-38
 - keyboard characters accepted by 3-10
 - printing from 3-12
 - turning to from MENU 2-42
- CPU's 1-9
- CRT: 3-15
- CTRL keys 2-12
- CTRL key used to switch off in continue mode 2-19
- CTRL-C 2-12
 - and warm starts 3-9
 - CTRL-HELP 2-15
 - CTRL-L 2-15, 2-52
 - CTRL-M 2-14
 - CTRL-P to toggle printer 3-12
 - CTRL-STOP 2-14
- Current drive 2-47
- Cursor changing 3-64
- Cursor keys and CP/M 2-14
- Cursor keys 2-7, 2-14
- Cursor
 - move to position on screen A-6
 - redefining using ESC sequence A-15
 - switching off A-5
 - switching on 3-64, A-5
- Cursor type 2-47, 3-64
 - changing with ESC sequence A-15

D

- Date setting 2-7, 2-47, 3-65
- Day setting 2-8, 2-47
- DDT 3-91
- DEL key 2-15
- Default settings 2-47
- Deleting characters 2-15, 3-10
 - lines 3-11
- Destination is R/O I-4
- Device assignments 3-46, 3-48
- DIP switch 2-3
- DIR 3-6, 3-17

- Directory full I-4
- Directory of disk 3-6, 3-17
 - pausing 3-20
 - printing 3-20
 - stopping 3-20
- Disk assignments 2-47, 3-66
- Disk characteristics 3-47
- Disk drive allocation 3-66
- Disk drive connection 4-29
- Disk full I-4
- Disk read error I-4
- Disk write error I-4
- DISKROV 5-19
- DISKTBL 5-19
- Displaying contents of a file using TYPE 3-30
- Display control commands 3-11
- Display does not appear 2-3
- Display screen 1-8
- DRINIT 4-6
- Drive, current 2-47
- Drive name assignments Appendix B
- Drive names 3-6
- Dual screen 2-56
- DUMP 3-92

E

- ED 3-91
- ERA 3-16, 3-21
- Erasing files from directory 3-21
 - of microcassette tape 3-23
- Error bad parameter I-4
- Error cannot open source I-5
- Error cannot close file I-5
- Error cannot open source I-5
- Error disk read I-5
- Error disk write I-5
- Error inverted load address I-5
- Error no more directory space I-5
- Error on line nn I-5
- ESC key 2-12, 2-14
- ESCAPE 2-14
 - sequences 2-47, A-1
 - sequences examples of use A-4
- Executing a series of commands 3-54
- Extension to files 3-3
 - examples of 3-4

F

- FCB 5-3
- Files and Filenames 3-3
 - characters allowed 3-3
 - control block (FCB) 5-3
 - size and attributes 3-50, 3-51
 - storage devices 4-1
- File exists 1-5
- File is read only 1-6
- File not found 1-6
- Filename required 1-6
- File types on MENU 2-36, 2-39, 2-47
- FILINK 3-32, 3-88
- Floppy Disk
 - drives 4-21
 - connection 4-29
- Folding legs 1-7
- Forgetting Password 2-26
- Format RAM disk 2-10
- FORMAT for disks 3-91
- Freezing screen window 2-15
- FUNCFLG 5-12

G

- GETPFK subroutine 5-14
- GO 2-41
- GRPH key 2-13
- Graphics
 - characters 2-13, E-2
 - and printer 4-33
- Graphics screen 2-57

H

- hhhh? = dd error 1-6
- Halting display temporarily 2-14
- Halting the computer temporarily 2-18
- HELP 2-14
- Hide files on directory 3-49
- HOME key 2-16
- HOME disk subroutine in BIOS 5-16
- How to use the manuals v

I

- Initialization 2-19
 - to overcome Password 2-26
- Initialization questions 2-7
 - reset 2-46
- INS 2-15
- Inserting characters 2-15
- Inserting battery 2-2
- Insufficient memory 1-6
- Intelligent RAM disk 2-5, 2-9
- Interfacing to other devices 4-1
- International characters table E-9
- Invalid error messages 1-6, 1-7
- IOBYTE 2-47, 5-2
- Italian characters 1-7, 3-74

J

- JUMPX subroutine 5-32

K

- Key response 2-12
- Keyboard and CP/M 3-10
 - buffer clearing with ESC sequences A-18
 - cover 1-6
 - layouts 1-6
 - layouts altering 2-3
 - operation 2-11

L

- Legs positioning 1-7
- LCD (Liquid Crystal Display) 1-8, 2-50
- LCD opening 1-8
- LDIRX subroutine 5-31
- LED A-10, A-11
- LIGHTPEN subroutine 5-33
- Line termination commands 3-11
- Line drawing using ESC sequence A-12
- LIST subroutine 5-13
- LISTST subroutine 5-14
- LOADX subroutine 5-31

Logical and physical devices 3-14
tables 3-16, 5-2
Lower case 2-12
LPT: 3-15, 5-2
LST: 3-14, 5-2

M

Main processor 1-9
MASKI subroutine 5-34
<MCT MODE> 2-43
MCMTX subroutines 5-36
Memory Map Appendix F
MENU
screen 2-10, 2-20, 2-21, 2-22, 2-23, 2-36, 2-47
activation conditions 2-42
command line 2-37
default settings 2-47
header 2-37
interruption off 2-42
reverting to CP/M command line 2-42
setting files types to be displayed 2-36, 2-39
termination of 2-42
using 2-37
using WAKE and AUTOSTART strings with 2-34
Microcassette 4-1
BASIC and 4-10
care of 4-2
changing tapes 2-44, 3-9
checking if tape is mounted 4-9
counter 2-43, 2-44
deck 1-9
directory 2-44, 3-19, 3-23, 4-4, 4-9
directory initialization 4-6
drive name 4-1
EJECT button 4-6
erasing files 3-23, 4-5
executing a program from 4-10
insertion of tape 4-2
loading 4-7
maximum files 1-9, 4-2
manual setting 2-43, 4-4
mode 2-43
mounting 2-44, 4-4, 4-7
non-stop and stop modes 2-43, 4-11
removing 2-44, 4-5, 4-7, 4-8, 4-9
selection and use 4-2

stop 2-44
STOP in an emergency 2-44
summary of operation 4-14
verify and non verify mode 2-43
Microcassette I/O System (MIOS) 2-21
Microcassette Tape Operating System (MTOS) 2-21, 4-1
MIOS 2-21, 5-1
Modem 4-26
MOUNT see under Microcassette
MTOS 2-21, 5-1

N

NO directory space I-7
No display 2-3
NO FILE 3-7, I-8
No space I-8
No sub file present I-8
Non-stop mode of microcassette 2-43, 4-11
Not deleted I-8
Not found I-8
NUM 2-13
Numerical keypad 2-13

O

Object Code 3-4
Operating systems 1-10
Operating System modules 2-21
Operating the Computer Chapter 2

P

Password 2-20, 2-21, 2-22, 2-24, 2-34, 2-47
Password removal 2-25
Password forgetting 2-26
PAUSE 2-14
PF keys 2-16
PIP 3-32, 3-34
optional parameters 3-37
with printer 4-32
Point of graphics screen set using ESC sequence A-13
Portable Calc 1-11, 3-33
Portable Scheduler 1-11
Portable Wordstar 1-11, 3-33

- and SUBMIT files 3-58
- Power failure 2-19
- POWEROFF routine 2-19, 5-11
- Power on automatically, see WAKE
- Power BIOS subroutines 5-11
- Power switch 2-18
- Precautions on using the AC adapter 2-1
- Precautions on using the Px-8 2-1
- Printer 4-32
 - ASCII codes E-2
 - cable 4-26
 - examples of use 4-32
 - output port 2-47, 3-67, 3-73
 - unintelligible output 4-31
- Printing
 - from CP/M command line 3-12
 - contents of a file using PIP 3-35
 - contents of a file using TYPE 3-30
- Programmable function keys 2-16
 - and CP/M 3-10, 3-62
 - disabling and enabling A-11
 - displaying 3-64
 - display switching using ESC sequence A-15
 - and Microcassette Tape 4-5
- Protecting files
 - from other users 3-31
 - make Read/Only 3-48
 - removing protection 3-49
- PSET subroutine 5-15
- PTP: 3-14, 5-2
- PTR: 3-14, 5-2
- PUN: 3-13, 5-2
- PUNCH subroutine 5-13
- PUTPFK subroutine 5-14

Q

- Quit not found I-9
- QX-10 Terminal mode 3-79, 3-81
- QX-10 communication 3-79

R

- RAM DISK 2-8, 2-23, 3-66
 - additional 4-19
 - default 2-9, 2-47
 - format 2-10

- see also Intelligent RAM disk
- RDR: 3-13, 5-2
- RDVRAM subroutine 5-33
- READ subroutine 5-18
- READER subroutine 5-13
- Real screen 2-50
- Receiving files 3-83, 3-89
- Record too long I-9
- Removing Password 2-25
- REN 3-16, 3-25
- Renaming files 3-25
- Resetting the system 2-5, 2-46
- Reset altering keyboard 2-5
- Reset summary table 2-47
- Reset CPU 2-5
- Reset complete CPU 2-5
- Reset simple 2-46
- Reset sub CPU 2-5, 2-19, 2-46
- Response of keys 2-12
- Restart mode 2-19, 2-20, 2-32
- Restarting programs 3-28
- RETURN key 2-14
- RETURN ASCII code 2-14
- ROMs and ROM sockets 4-17
 - changing 3-9, 4-15
 - containing data or BASIC programs 4-18
- RS-232C 2-47, 3-67, 4-22
 - BIOS routines 5-20
 - cables 4-26
 - changing parameters 3-68
 - communications with 3-75, 4-22
 - connection 4-24
 - default settings 4-23
 - and printer 4-23
 - pin assignments 4-25
- RSCLOSE subroutine 5-21
- RSIN subroutine 5-22
- RSINST subroutine 5-21
- RSIOX subroutines 5-23
 - RSIOX(CLOSE) 5-24
 - RSIOX(CTLIN) 5-26
 - RSIOX(ERSTS) 5-27
 - RSIOX(GET) 5-25
 - RSIOX(INSTS) 5-24
 - RSIOX(OPEN) 5-23
 - RSIOX(OUTST) 5-25
 - RSIOX(PUT) 5-26
 - RSIOX(SENS) 5-27
 - RSIOX(SETCTL) 5-27

RSOPEN subroutine 5-21
RSOUTST subroutine 5-22
RSOUT subroutine 5-22

S

SAVE 2-20, 3-16, 3-27
Save a block of memory 3-27
SAVE GO.COM 2-41, 3-28
Screen guide to using 2-50
Screen blank on switching on 2-3, 2-19
Screen saving to disk H-6
Screen Dump 2-17, 2-21, 2-45
 and DIP switch setting 2-4, 4-33
 using ESC sequence A-7
 and graphics characters 4-33
 halting 2-45
Screen mode 3-69
 changing 3-70
 changing with ESC sequence A-13
 default 2-47
Screen mode 0 2-51
Screen mode 1 2-55
Screen mode 2 2-56
Screen mode 3 2-57
Screen printing - halting 2-14
SCRN key 2-15, 3-12
SCRNDUMP subroutine 5-16
Scrolling screen 2-52
Scrolling screen using ESC sequences A-8, A-9, A-10
Secret mode A-7, A-8
SECTAN subroutine 5-19
SELDSK subroutine 5-16
Sending files 3-84, 3-89
Serial interface 2-47, 3-72, 4-29
 connector 4-29
 pin assignments 4-30
Series of commands 3-55
SETDMA subroutine 5-18
SETSEC subroutine 5-17
Setting the ALARM 2-27
SETTRK subroutine 5-17
Shift key setting using ESC sequence A-19
SHIFT IN/SHIFT OUT 4-22, 5-21
SLAVE
 subroutine 5-33
 example of use H-6

Slave processor 1-9
Source Code 3-4
Space on disk 3-52
Spanish characters 1-7, 3-74
Speaker 4-34
 BIOS subroutine 5-20
 external jack location 4-34
 tape through 2-43
Special keys 2-14
Split screen 2-55
Start not found I-9
Starting up the Px-8 2-1
STAT program 2-38, 3-32, 3-45
 summary of commands 3-53
STOP key 2-14
Stop mode of microcassette 2-43, 4-11
Storage C-2
Storing on second virtual screen 2-54
STORX subroutine 5-31
Sub CPU 1-9
SUBMIT 3-32, 3-54
 comments in 3-58
 files from BASIC 3-57
 files from Wordstar 3-58
 keyboard input see XSUB
Switch keys 2-12
Switching the PX-8 on and off 2-18
System activator 2-21
System Bank 5-30
System Bus Interface 4-39
System Display 2-15, 2-21, 2-22
 parameters changed by 2-47
System file not accessible I-9
System Interface 5-1
System prompt 3-6

T

TAB 2-15
TERM 3-32, 3-77
Terminal mode 3-82
TIMEDAT
 subroutines for clock 5-28
TIMEDAT(ALARM DISABLE) 5-29
TIMEDAT(ALARM ENABLE) 5-29
TIMEDAT(READ ALARM) 5-30
TIMEDAT(READ TIME) 5-29

TIMEDAT(SET ALARM) 5-29
TIMEDAT(SET TIME) 5-29
Time setting 2-7, 3-65
Too many files I-9
Tracking mode 2-15, 2-50, 2-51
 setting using ESC sequences A-9
TTY: 3-15, 5-2
TYPE 3-16, 3-27

U

UC1: 3-15, 5-2
Ufn 3-5
UL1: 3-14, 5-2
Unambiguous file names 3-4
Universal Unit 4-38
Unpacking notes 1-1
UP1: and UP2: 3-14, 5-2
Upper case 2-12
UR1: and UR2: 3-15, 5-2
Use: STAT error I-10
User bank 5-30
USER BIOS 2-9, 2-23, 2-47, 3-73
USERBIOS subroutine 5-36
User defined characters 2-13, 2-47
 changed by reset 2-48
 setting with ESC sequence A-16
USER 3-16, 3-31
 status 3-52
Utilities 1-10, 3-32

V

Verify and non-verify modes of microcassette 2-43, 4-11, 4-13
Verify error I-10
Virtual screens 2-50
 changing between 2-54, 3-12
 changing with ESC sequence A-14
 description of using 2-51
 lines in screen mode 0, 3-70
 lines in screen mode 1, 3-71
 lines in screen mode 2, 3-71
 lines in screen mode 3, 3-72

W

WAKE 2-22, 2-27
 rules for setting 2-34
 setting 2-30
Wake treated as an Alarm 2-25, 2-32
Warm start 2-14, 3-9, 4-24
WBOOT 5-11
 how to find 5-8
Wildcards
 and ALARM setting 2-29
 and CP/M files 3-5
 problems if used with ERA 3-22
Winding tape 2-43
Window on virtual screen
 default setting 2-47
 freezing 2-15
 moving with ESC sequence A-15, A-16
WRITE subroutine 5-18

X

XON/XOFF 4-22, 5-21
XSUB 3-32, 3-54, 3-60
 for keyboard input in SUBMIT files 3-60
XSUB active I-10

Z

Zero page locations 5-8

^ meaning CTRL 2-13, 2-31
↵ : meaning RETURN 2-16
? as error message in CP/M I-1, 2-52