

1: // Commands
2:
3: CF/M 3 Command Format
4:
5: A COMMAND (command tail) <cr>
6:
7: A CF/M 3 command line is composed of a command, an optional
8: command tail, and a carriage return. The command is the name or
9: filename of a program to be executed. The optional command tail
10: can consist of a drive specification, one or more file
11: specifications, and some options or parameters.
12:
13: // Conventions
14: COMMAND CONVENTIONS
15:
16: The following special symbols define command syntax.
17:
18: () surrounds an optional item.
19: · separates alternative items in a command line.
20: <cr> indicates a carriage return.
21: # indicates the Control key.
22: n substitute a number for n.
23: s substitute a string (group) of characters for s.
24: o substitute an option or option list for o.
25: [] type square brackets to enclose an option list.
26: () type parens to enclose a range of options within an option list.
27: RW Read-Write attribute - opposite of RO
28: RO Read-Only attribute - opposite of RW
29: SYS System attribute - opposite of DIR
30: DIR Directory attribute - opposite of SYS
31: ... preceding element can be repeated as many times as desired.
32: * wildcard: replaces all or part of a filename and/or filetype.
33: ? wildcard: replaces any single character
34: in the same position of a filename and/or filetype.
35:
36:
37: // Characters
38:
39: Control Character Function
40:
41: CTRL-A moves cursor one character to the left. Banked system
42: only.
43:
44: CTRL-B moves cursor from beginning to end of command line and
45: back without affecting command. Banked system only.
46:
47: CTRL-C stops executing program when entered at the > prompt
48: or after CTRL-S.
49:
50: CTRL-E forces a physical carriage return without sending
51: command to CF/M 3.
52:
53: CTRL-F moves cursor one character to the right. Banked system
54: only.
55:
56: CTRL-G deletes character at current cursor position if in the
57: middle of a line. Banked system only.
58:
59: CTRL-I same as the TAB key.
60:

61: CTRL-LW delete character to the left of cursor.
62: CTRL-LJ moves cursor to the left of the command line and prints
4: command to CP/M 3+ line feed, has same effect as
63: carriage return.
64:
65: CTRL-LK deletes character at cursor and all characters to the
66: right.
67: CTRL-LM same as carriage return.
68: CTRL-LN echoes console output to the list device.
69: CTRL-LP restarts screen scrolling after a CTRL-S.
70: CTRL-LR retypes the characters to the left of the cursor; on a
71: new line; updates the command line buffer.
72: CTRL-LS stops screen scrolling.
73: CTRL-LU updates the command line buffer to contain the
74: characters to the left of the cursor; deletes current
75: line.
76: CTRL-LW recalls previous command line if current line is empty;
77: otherwise moves cursor to end of line. CTRL-C,-M,-R,-U
78: and RETURN update the command line buffer for recall
79: with CTRL-W. Backed system only.
80:
81: CTRL-LX deletes all characters to the left of the cursor.
82: //1COPYSYS
83:
84: Syntax:
85:
86: COPYSYS
87:
88: Explanation:
89:
90: COPYSYS copies the CP/M 3 system from a CP/M 3 system diskette to
91: another diskette. The new diskette must have the same format as
92: the original system diskette.
93:
94: Example:
95:
96: A>COPYSYS
97:
98: //1DATE
99:
100: Syntax:
101:
102: DATE (CONTINUOUS)
103: DATE (time-specification)
104: DATE SET
105:
106: Explanation:
107:
108: The DATE command lets you display and set the date and time of
109: day.
110:

121: //DE2E examples
122:
123: A>DATE
124:
125: Displays the current date and time.
126:
127: A>DATE C
128:
129: Displays the date and time continuously.
130:
131: A>DATE 08/14/82 10:30:0
132:
133: Sets the date and time.
134:
135: A>DATE SET
136:
137: Prompts for date and time entries.
138:
139: //DEVICE
140:
141: Syntax:
142:
143: DEVICE [NAMES : VALUES : physical-dev. : logical-dev]
144: DEVICE logical-dev=physical-dev {option}
145: {,physical-dev {option},...}
146: DEVICE logical-dev = NULL
147: DEVICE physical-dev {option}
148: DEVICE CONSOLE [PAGE : COLUMNS = columns | LINES = lines]
149:
150: Explanation:
151:
152: DEVICE displays current logical device assignments and physical
153: device names. DEVICE assigns logical devices to peripheral
154: devices attached to the computer. DEVICE also sets the
155: communications protocol and speed of a peripheral device, and
156: displays or sets the current console screen size.
157:
158: //Options
159:
160: [XON : NOXON : baud-rate]
161:
162: XON refers to the XON/XOFF communications protocol.
163:
164: NOXON indicates no protocol and the computer sends data to
165: the device whether or not the device is ready to
166: receive it.
167:
168: baud-rate is the speed of the device. The system
169: accepts the following baud rates:
170:
171: 50 75 110 134
172: 150 200 300 1200
173: 1800 2400 3600 4800
174: 7200 9600 19200
175:
176: // Examples
177:
178: A>DEVICE
179:
180: Displays the physical devices and current assignments of

A > DEVICE AUX: = SERIAL [19200]

181: the logical devices in the system.
182:
183: ADEVICE NAMES
184:
185: Lists the physical devices with a summary of the device
186: characteristics.
187:
188: ADEVICE VALUES
189:
190: Displays the current logical device assignments.
191:
192: ADEVICE CRT
193:
194: Displays the attributes of the physical device CRT.
195:
196: ADEVICE CON
197:
198: Displays the assignment of the logical device CON.
199:
200: ADEVICE CONOUT:=LPT,CRT
201:
202: Assigns the system console output (CONOUT:) to the
203: printer (LPT) and the screen (CRT).
204:
205: ADEVICE AUXIN:=CPT2 EXON,9600
206:
207: Assigns the auxiliary, logical input device (AUXIN:) to
208: the physical device CPT using protocol XON/XOFF and
209: sets the transmission rate for the device at 9600.
210:
211: ADEVICE LPT:=NULL
212:
213: Disconnects the first output logical device (LPT).
214:
215: ADEVICE LPT EXON,9600
216:
217: Sets the XON/XOFF protocol for the physical device LPT
218: and sets the transmission speed at 9600.
219:
220: ADEVICE CONSOLE [PAGE]
221:
222: Displays the current console page width in columns and
223: length in lines.
224:
225: ADEVICE CONSOLE [COLUMNS=40 LINES=16]
226:
227: Sets the screen size to 40 columns and 16 lines.
228:
229: /DIR
230:
231: The DIR command displays the names of files and their
232: characteristics associated with the files.
233:
234: The DIR command has three distinct references:
235:
236: DIR
237: DIRS
238: DIR with Options
239:
240: DIR and DIRS are built-in utilities. DIR with Options is a

241: transient utility and must be loaded into memory from the disk.
242:
243: . CBuiltin
244:
245: Syntax:
246:
247: DIR (ss:
248: DIR (filespec)
249:
250: DDIR (dd:
251: DDIR (filespec)
252:
253: Explanation:
254:
255: The DIR and DDIR Built-in commands display the names of files
256: cataloged in the directory of an on-line disk. DIF lists the
257: names of files in the current user number that have the Directory
258: (DIR) attribute. DIR accepts the * and ? wildcards in the file
259: specification.
260:
261: /V/TB examples
262:
263: ADDIR
264:
265: Displays all files in user 0 on drive A that have the
266: Directory attribute.
267:
268: A:DIF B:
269:
270: Displays all DIR files in user 0 on drive B.
271:
272:
273: B:A:DIF C:ZIPPY.DAT
274:
275: Displays the name ZIPPY.DAT if the file is in user 2 on
276: drive C.
277:
278: 4A:DIF *.BAE
279:
280: Displays all DIR files with filetype BAE in user 4 on drive
281: A.
282:
283: B:DIF XX.CCD
284:
285: Displays all DIR files in user 2 on drive B whose filename
286: begins with the letter X, and whose three character filetype
287: contains the first character C and last character D.
288:
289: ADDIRS
290:
291: Displays all files for user 0 on drive A that have the
292: system (SYS) attribute.
293:
294: ADDIRS *.COM
295:
296: Displays all SYS files with filetype COM on drive A in user
297: 0. A command (.COM) file in user 0 with the system
298: attribute can be accessed from any user number on that
299: drive, and from any drive in the search chain (see SETDEF).
300:

301: . SwitchOptions
312:
303: Syntax:
304:
305: DIR [d:] [options]
306: DIR [filespec] [filespec] ... [options]
307:
308: Explanation:
309:
310: The DIR command with options is an enhanced version of the DIS
311: built-in command and displays your files in a variety of ways.
312: DIR can search for files on any or all drives, for any or all
313: user numbers. One or two letters is sufficient to identify an
314: option. You need not type the right hand square bracket.
315:
316: //3Options
317:
318: Option Function
319:
320: ATT displays the file attributes.
321:
322: DATE displays date and time stamps of files.
323:
324: DIR displays only files that have the DIR attribute.
325:
326: DRIVE=ALL displays files on all on-line drives.
327:
328: DRIVE=(A,B,C,...,Z)
329: displays files on the drives specified.
330:
331: DRIVE=d displays files on the drive specified by d.
332:
333: EXCLUDE displays files that DO NOT MATCH the files
334: specified in the command line.
335:
336: FF sends an initial form feed to the printer device if
337: the printer has been activated by CTRL-P.
338:
339: FULL shows the name, size, number of 128-byte records, and
340: attributes of the files. If there is a directory
341: label on the drive, DIR shows the password
342: protection mode and the time stamps. If there is no
343: directory label, DIR displays two file entries on a
344: line, omitting the password and time stamp columns.
345: The display is alphabetically sorted. (See SET for a
346: description of file attributes, directory labels,
347: passwords and protection modes.)
348:
349: LENGTH=n displays n lines of printer output before inserting
350: a table heading. n is a number between 5 and 65535.
351:
352: MESSAGE displays the names of drives and user numbers DIR is
353: searching.
354:
355: NOEATR displays files in the order it finds them on the disk.
356:
357: RC displays only the files that have the Read-Only
358: attribute.
359:
360: RW displays only the files that are set to Read-Write.

351: 352: SIZE displays the filename and size in kilobytes (1KB=1024 bytes).
353:
354: 355: SYS displays only the files that have the SYS attribute.
356:
357: 358: USER=ALL displays all files in all user numbers for the default or specified drive.
359:
360: 361: USER=n displays the files in the user number specified by n.
362: 363: USER=(0,1,...,15) displays files under the user numbers specified.
364:
365: 366: Examples
367:
368: 369: A DIR C: [FULL]
370:
371: 372: Displays full set of characteristics for all files in user 0 on drive C.
373:
374: 375: A DIR C: [DATED]
376:
377: 378: Lists the files on drive C and their dates.
379:
380: 381: A DIR D: [RW,SYST]
382:
383: 384: Displays all files in user 0 on drive D with Read-Write and System attributes.
385:
386: 387: C DIR [USER=ALL, DFLV=ALL]
388:
389: 390: Displays all the files in all user numbers (0-15) in all on-line drives.
391:
392: 393: B DIR [excludef *.DAT]
394:
395: 396: Lists all the files on drive B in user 0 that do not have a filetype of .DAT.
397:
398: 399: E DIR [SIZED *.PLI *.COM *.ASM]
400:
401: 402: Displays all the files of type PLI, COM, and ASM in user 0 on drive E in size display format.
403:
404: 405: A DIR [drive=all user=all] TESTFILE.BOB
406:
407: 408: DIR displays the filename TESTFILE.BOB if it is found on any drive in any user number.
409:
410:
411: 412: A DIR [size,rw] D:
413:
414: 415: DIR lists each Read-write file that resides on Drive D, with its size in kilobytes. Note that D: is equivalent to D:*.*.
416:
417: 418: /V /IDUMF
419: 420: Syntax:

421: DUMP filespec
422:
423: Explanation:
424: DUMP displays the contents of a file in hexadecimal and ASCII
425: format.
426:
427: Examples:
428: 429: EDUMP ABC.TEX
430:
431: />1ed
432:
433: Format:
434:
435: 436: ED inputfilespec [d:]outputfilespec
437:
438: Explanation:
439:
440: Character file editor. To redirect or rename the new version of
441: the file specify the destination drive or destination filespec.
442:
443: 172 commands
444:
445: ED Command Summary
446:
447:
448: Command Action
449:
450: nA append n lines from original file to memory buffer
451:
452: nA append file until buffer is one half full
453:
454: #A append file until buffer is full (or end of file)
455:
456: B, -B move CF to the beginning (B) or bottom (-B) of buffer
457:
458: nC, -nC move CF n characters forward (C) or back (-C) through buffer
459:
460: nD, -nD delete n characters before (-D) or from (D) the CF
461:
462: S save new file and return to CP/M-86
463:
464: Fstring('Z') find character string
465:
466: H save new file, readit, use new file as original file
467: I(ce) enter insert mode
468:
469: Lstring(Z)

421: insert string at DP
422:
423: JSEARCH_ZSTR ZCOPY_ZSTR Insert_ZSTR
424: copy/paste strings
425:
426: CR, -CR
427: delete (will) n lines from the CF
428:
429: CL, -CL, CL
430: move CF n lines
431:
432: nMcommands
433: execute commands n times
434:
435: n, -n
436: move CF n lines and display that line
437:
438: n:
439: move to line n
440:
501: :command
502: execute command through line n
503:
504: Mstring('Z)
505: extended find string
506:
507: 0
508: return to original file
509:
510: CF, -nF
511: move CF n lines forward and display n lines at console
512:
513: Q
514: abandon new file, return to CF/M-BE
515:
516: B.C.Z0
517: read X\$\$\$\$\$.LIB file into buffer
518:
519: Ffilespec('Z)
520: read filespec into buffer
521:
522: Sdelete_string Zinsert_string
523: Substitute string
524:
525: ST, -ST, OT
526: type n lines
527:
528: U, -U
529: uppercase translation
530: V, -V
531: line numbering on/off
532: OV
533: display free buffer space
534: OW
535: write r lines to new file
536: OW
537: write until buffer is half empty
538: nx
539: write or append n lines to X\$\$\$\$\$.LIB
540:

```
541:    nXFileSpec(12)
542:        write n lines to fileSpec;
543:        append if previous . contacts applied to same file
544:
545:    C:\> D:
546:        delete file A$$$$$$$$$.LIB
547:
548:    lXFileSpec(12)
549:        delete fileSpec
550:
551:    C:
552:        wait C seconds
553:
554: Note: C$ points to the current character being referenced in
555:       the edit buffer. Use C$ to separate multiple commands
556:       on the same line.
557:
558: /ZB Examples
559:
560: A:ED TEST.DAT
561: A:ED TEST.DAT B:
562: A:ED TEST.DAT TEST2.DAT
563: A:ED TEST.DAT B:TEST2.DAT
564:
565: /* Erase
566:
567: Syntax:
568:     ERASE {fileSpec} [{CONFIRM}]
569:
570: Explanation:
571:
572: The ERASE command removes one or more files from the
573: directory of a disk. Wildcard characters are accepted in the
574: fileSpec. Directory and data space are automatically reclaimed
575: for later use by another file. The ERASE command can be
576: abbreviated to ERA.
577:
578: /* Option
579:
580: {CONFIRM} option informs the system to prompt for
581: verification before erasing each file that
582: matches the fileSpec. CONFIRM can be
583: abbreviated to C.
584:
585: /* ZB Examples
586:
587: A:ERASE X.PAS
588:
589:     Removes the file X.PAS from the disk in drive A.
590:
591: A:ERA *.PRN
592: Confirm (Y/N)?Y
593:
594:     All files with the filetype PRN are removed from the disk
595:     in drive A.
596:
597: B:ERA A:MY*.* {CONFIRM}
598:
599:     Each file on drive A with a filename that begins with MY is
600:     displayed with a question mark for confirmation. Type Y to
```

601: erase the file displayed, N to keep the file.
602:
603: ALETA B:*.
604: Confirm (Y/N)?Y
605:
606: All files on drive B are removed from the disk.
607:
608: //filespec
609:
610: FILESPEC FORMAT
611:
612: CF/M I identifies every file by its unique file specification,
613: which can consist of four parts: the drive specifier, the
614: filename, the filetype and the password. The term "filespec"
615: indicates any valid combination of the four parts of a file
616: specification, all separated by their appropriate delimiters.
617: A colon must follow a drive letter. A period must precede a
618: filetype. A semicolon must precede a password.
619:
620: The symbols and rules for the parts of a file
621: specification follow:
622:
623: D: drivespec optional single alpha character 'A-F'
624: filename filename 1-8 letters and/or numbers
625: TYP filetype optional 0-7 letters and/or numbers
626: password password optional 0-8 letters and/or numbers
627:
628: Valid combinations of the elements of a CF/M I file specification
629: are:
630:
631: filename
632: :filename
633: filename.typ
634: :filename.typ
635: filename;password
636: :filename;password
637: filename.typ;password
638: :filename.typ;password
639:
640: If you do not include a drive specifier, CF/M I automatically
641: uses the default drive.
642:
643: Some CF/M I commands accept wildcard (*) and (?) characters in the
644: filename and/or filetype parts of the command tail. A wildcard
645: in the command line can in one command reference many matching
646: files on the default or specified user number and drive. (See
647: Commands).
648:
649: //GENCOM
650:
651: Syntax:
652:
653: GENCOM [COM-filespec] [FSX-filename] ...
654: [LOADER (NULL | SCB=offset,value)]
655:
656: Explanation:
657:
658: The GENCOM command creates a special COM file with attached FSX
659: files. The GENCOM command can also restore a previously
660: GENComed file to the original COM file without the header and

651: RSX's. GENCOM can also attach header records to COM files.
652:
653: //V2Options
654:
655: LOADER sets a flag to keep the program loader active.
656:
657: NULL indicates that only RSX files are specified. GENCOM
658: creates a dummy COM file for the RSX files. The
659: output COM filename is taken from the filename of the
660: first RSX-filespec.
661:
662: SCB=(offset,value)
663: sets the System Control Block from the program's,
664: using the hex values specified by (offset,value).
665:
666: //DEamples
667:
668: A)GENCOM MYPROG PROG1 PROG2
669:
670: Generates a new COM file MYPROG.COM with attached RSX's
671: PROG1 and PROG2.
672:
673: A)GENCOM PROG1 PROG2 (NULL)
674:
675: Creates a COM file PROG1.COM with RSX's PROG1 and PROG2.
676:
677: A)GENCOM MYPROG
678:
679: GENCOM takes MYPROG.COM, strips off the header and
680: deletes all attached RSX's to restore it to its original COM
681: format.
682:
683: A)GENCOM MYPROG PROG1 PROG2
684:
685: GENCOM looks at the already-GENCOMed file MYPROG.COM to see
686: if PROG1.RSX and PROG2.RSX are already attached RSX files in
687: the module. If either one is already attached, GENCOM
688: replaces it with the new RSX module. Otherwise, GENCOM
689: appends the specified RSX files to the COM file.
700:
701: //GET
702:
703: Syntax:
704:
705: GET {CONSOLE INPUT FROM[FILE filespec([ECHO|NO ECHO]) | SYSTEM]}\br/>706: GET {CONSOLE INPUT FROM CONSOLE}
707:
708: Explanation:
709:
710: GET directs the system to take console input from a file for the
711: next system command or user program entered at the console.
712:
713: Console input is taken from a file until the program
714: terminates. If the file is exhausted before program input is
715: terminated, the program looks for subsequent input from the
716: console. If the program terminates before exhausting all its
717: input, the system reverts back to the console for console input.
718:
719: With the SYSTEM option, the system immediately goes to the
720: specified file for console input. The system reverts to the

721: console for input when it reaches the end of file. Re-direct
722: the system to the console for console input with the SET
723: CONSOLE INPUT FROM CONSOLE command as a command line in the input
724: file.

725:

726: ./. Options

727:

728: ECHO specifies that input is echoed to the console. This
729: is the default option.

730:

731: NO ECHO specifies that file input is not echoed to the
732: console. The program output and the system prompts are
733: not affected by this option and are still echoed to
734: the console.

735:

736: SYSTEM specifies that all system input is immediate, taken
737: from the disk file specified in the command line. GET
738: takes system and program input from the file until the
739: file is exhausted or until GET reads a GET console
740: command from the file.

741:

742: ./. Examples

743:

744: A) GET FILE XINPUT
A) MYPROG

745:

746: Tells the system to activate the GET utility. Since SYSTEM
747: is not specified, the system reads the next input line from
748: the console and executes MYPROG. If MYPROG program
749: requires console input, it is taken from the file XINPUT.
750: When MYPROG terminates, the system reverts back to the
751: console for console input.

752:

753: A) GET FILE XINC [SYSTEM]

754:

755: Immediately directs the system to get subsequent
756: console input from file XINC because it includes the SYSTEM
757: option. The system reverts back to the console for
758: console input when it reaches the end of file in XINC. Or
759: XINC may redirect the system back to the console if it
760: contains a GET CONSOLE command.

761:

762: A) GET CONSOLE

763:

764: Tells the system to get console input from the console.
765: This command may be used in a file (previously specified in
766: a GET FILE command), which is already being read by the
767: system for console input. It is used to re-direct the
768: console input back to the console before the end-of-file
769: is reached.

770:

771: ./. HELP

772:

773: Syntax:

774:

775: HELP {topic} {subtopic1 ... subtopic8} {[NOPAGE|LIST]}

776:

777: Explanation:

778:

779: HELP displays a list of topics and provides summarized

781: Information for CF/MC commands.
782:
783: HELP topic displays information about that topic.
784: HELP topic subtopic displays information about that subtopic.
785:
786: One or two letters is enough to identify the topics. After HELP
787: displays information for your topic, it displays the
788: special prompt HELP at your screen, followed by a list of
789: subtopics.
790:
791: - Enter ? to display list of main topics.
792: - Enter a period and subtopic name to access subtopics.
793: - Enter a period to redisplay what you just read.
794: - Press the SHIFT key to return to the CF/MC master prompt.
795: - IGNORED option disables the 24 lines per page console display.
796: - Press any key to end a display and return to the HELP prompt.
797:
798: Examples:

801: A:HELP
802: A:HELP DATE
803: A:HELP DIF OPTIONS
804: A:HELP .OPTIONS
805: HELP SET
806: HELP SET PASSWORD
807: HELP .PASSWORD
808: HELP >
809:
810: />1HEXCOM

811: Syntax:

812: HEXCOM filename

813: Explanation:

814: The HEXCOM Command generates a command file filer,pe.COM from
815: a .HEX input file. It names the output file with the same
816: filename as the input file but with filer,pe.COM. HEXCOM always
817: looks for a file with filer,pe.HEX.

818: Examples:

819: A:HEXCOM B:PROGRAM

820: Generates a command file PROGRAM.COM from the input file PROGRAM.HEX.

821: A:INITDIR

822: Syntax:

823: INITDIR [d:]

824: Explanation:

825: The INITDIR Command initializes a disk directory to allow date
826: and time stamping of files on that disk. INITDIR can also recover
827: time/date directory space.

841:
842: Example:
843:
844: A\INITDIR Z:
845:
846: INITDIR WILL ACTIVATE TIME-STAMPS FOR SPECIFIED DRIVE.
847: Do you want to re-format the directory, or Z: (Y/N)?Y
848:
849: //LIB
850:
851: Syntax:
852:
853: LIB filespec([IM]P[D])
854: LIB filespec([IM]P[D])=filespec(modifier)
855: ,filespec(modifier) ... ?
856:
857: Explanations:
858:
859: A library is a file that contains a collection of object modules.
860: Use the LIB utility to create libraries, and to append, replace,
861: select or delete modules from an existing library. Use LIB to
862: obtain information about the contents of library files.
863:
864: LIB creates and maintains library files that contain object
865: modules in Microsoft REL file format. These modules are produced
866: by Digital Research's relocatable macro-assembler program, FMAC,
867: or any other language translator that produces modules in
868: Microsoft REL file format.
869:
870: You can use LINK-80 to link the object modules contained in a
871: library to other object files. LINK-80 automatically selects
872: from the library only those modules needed by the program being
873: linked, and then forms an executable file with a filetype of COM.
874:
875: //Options
876:
877: I The INDEX option creates an indexed library file
878: of type .IRL. LINK-80 searches faster on indexed
879: libraries than on non-indexed libraries.
880:
881: M The MODULE option displays module names.
882:
883: P The PUBLICS option displays module names and the
884: public variables for the new library file.
885:
886: D The DUMP option displays the contents of object
887: modules in ASCII form.
888:
889: //Modifiers
890:
891: Use modifiers in the command line to instruct LIB to
892: delete, replace, or select modules in a library file. Angle
893: brackets enclose the modules to be deleted or replaced.
894: Parentheses enclose the modules to be selected.
895:
896: LIB Modifiers
897:
898: Delete <module=>
899:
900: Replace <module=filename.REL>

901:
902: If module name and filename are the
903: same this shorthand can be used:
904:
905: <filename>
906:
907: Select (modFIRST-modLAST,mod1,mod2,...,mod.)
908:
909: //V2Examples
910:
911: A\LIB TEST4.REL
912:
913: Displays all modules and publics in TEST4.REL.
914:
915: A\LIB TEST5[FO]=FILE1,FILE2
916:
917: Creates TEST5.REL from FILE1.REL and FILE2.REL and displays
918: all modules and publics in TEST5.REL.
919:
920: A\LIB TEST=TEST1(MOD1,MOD4),TEST2 C1-C4,C6
921:
922: Creates a library file TEST.REL from modules in two source
923: files. TEST1.REL contributes MOD1 and MOD4. LIB extracts
924: modules C1, C4, and all the modules located between C1 and
925: as well as module C6 from TEST2.REL.
926:
927: A\LIB FILE1=FILE1(MODA=)
928:
929: Creates FILE1.REL from FILE1.REL, omitting MODA which is
930: a module in FILE1.REL.
931:
932: A\LIB FILE2=FILE2(MODA=FILEB.REL)
933:
934: Creates FILE2.REL from FILE2.REL, FILEB.REL replaces MODA.
935:
936: A\LIB FILE3=FILE3(THISNAME)
937:
938: Module THISNAME is in FILE3.REL. When LIB creates
939: FILE3.REL from FILE3.REL the file THISNAME.REL replaces the
940: similarly named module THISNAME.
941:
942: A\LIB FILE1[FO]=B:FILE2(PLCT8,FIN4,SEARCH-DISPLAY)
943:
944: Creates FILE1.REL on drive A from the selected modules
945: PLCT8, FIN4, and modules SEARCH through the module
946: DISPLAY, in FILE2.REL on drive B.
947:
948: .MLINK
949:
950: Syntax:
951:
952: LIB [filespec, (options)0=filespec(options)]1,...1
953:
954: Explanations:
955:
956: LIB combines relocatable object modules such as those
957: produced by RMAC and PLT-80 into a .COM file ready for
958: execution. Relocatable files can contain external references and
959: publics. Relocatable files can reference modules in library
960: files. LIB searches the library files and includes the

981: referenced modules in the output file. See the CP/M 3
 982: Programmer's Utilities Guide for a complete description of LINK-
 983: BO.
 984:
 985: **/VCOptions**
 986:
 987: Use LINK option switches to control execution parameters. Link
 988: options follow the file specifications and are enclosed
 989: within square brackets. Multiple switches are separated by
 990: commas.
 991:
 992: **LINK-BO Options**
 993:
 994: A Additional memory; reduces buffer space
 995: and writes temporary data to disk
 996:
 997: B BIGS link in banked CP/M 3 system.
 998: 1. Aligns code segment on page boundary.
 999: 2. Puts length of code segment in header.
 1000: 3. Defaults to .SFR filetype.
 1001:
 1002: DOrigin Data origin; sets memory origin for
 1003: common and data area
 1004:
 1005: Eo Go; set start address to label n
 1006:
 1007: Lhhh Load; change default load address
 1008: of module to hhh. Default 0100H
 1009:
 1010: Mhhh Memory size; Define free memory
 1011: requirements for MP/M modules.
 1012:
 1013: NL No listing of symbol table at console
 1014:
 1015: NR No symbol table file
 1016:
 1017: OC Output .COM command file. Default
 1018:
 1019: OP Output .SPL page relocatable file for
 1020: execution under MP/M in relocatable
 1021: segment
 1022:
 1023: OR Output .SRE resident system process file
 1024: for execution under MP/M
 1025:
 1026: OS Output .SRE system page relocatable file
 1027: for execution under MP/M
 1028:
 1029: PhhhP Program origin; changes default
 1030: program origin address to hhh.
 1031: Default is 0100H.
 1032:
 1033: Q Lists symbols with leading question mark
 1034:
 1035: S Search preceding file as a library
 1036:
 1037: \$Cd Destination of console messages
 1038: I can be X (console), Y (printer),
 1039: or Z (zero output). Default is X.
 1040:

1021: \$ID Source of intermediate files;
1022: D is disk drive A-F. Default
1023: is current drive.

1025: \$LD Source of library files;
1026: D is disk drive A-F. Default
1027: is current drive.

1029: \$OD Destination of object file;
1030: D can be Z or disk drive A-P.
1031: Default is to same drive as
1032: first file in the LINK-80 command.

1034: \$SD Destination of symbol file;
1035: D can be Y or Z or disk drive A-P.
1036: Default is to same drive as
1037: first file in LINK-80 command.

1038: //CEExamples

1040:

1041: A\$LINK B:MYFILE[NR]

1042:

1043: LINK-80 on drive A uses as input MYFILE.REL on drive B and
1044: produces the executable machine code file MYFILE.COM on
1045: drive B. The [NR] option specifies no symbol table file.

1046:

1047: A\$LINK m1,m2,m3

1048:

1049: LINK-80 combines the separately compiled files m1, m2, and
1050: m3, resolves their external references, and produces the
1051: executable machine code file m1.COM.

1052:

1053: A\$LINK m=m1,m2,m3

1054:

1055: LINK-80 combines the separately compiled files m1, m2, and
1056: m3 and produces the executable machine code file m.COM.

1057:

1058: A\$LINK MYFILE,FILE5[s]

1059:

1060: The [s] option tells LINK-80 to search FILE5 as a library.
1061: LINK-80 combines MYFILE.REL with the referenced
1062: subroutines contained in FILE5.REL on the default drive
1063: A and produces MYFILE.COM on drive A.

1064:

1065: //imac

1066:

1067: Syntax:

1068:

1069: MAC filename (\$options)

1070:

1071: Explanation:

1072:

1073: MAC, the CP/M 3 macro assembler, reads assembly language
1074: statements from a file of type .ASM, assembles the statements,
1075: and produces three output files with the input filename and
1076: filetypes of .HEX, .PRN, and .SYM. Filename.HEX contains INTEL
1077: hexadecimal format object code. Filename.PRN contains an
1078: annotated source listing that you can print or examine at the
1079: console. Filename.SYM contains a sorted list of symbols defined
1080: in the program.

1081:
1082: A) MAC Examples
1083:
1084: A) MAC SAMPLE
1085:
1086: A MAC SAMPLE #PB AA BB BY
1087:
1088: A) Options
1089:
1090: Use options to direct the input and output of MAC. Use a letter
1091: with the option to indicate the source and destination drives,
1092: and console, printer, or zero output. Valid drive names are A
1093: thru D, X, F and Z specify console, printer, and zero output,
1094: respectively.
1095:
1096: Assembly Options That Direct Input/Output
1097:
1098: A source drive for .ASM file (A-C)
1099: D destination drive for .EXE file (A-C, Z)
1100:
1101: B source drive for macrolibrary .LIB files called by the
1102: MACLIB statement.
1103:
1104: C destination drive for .FBN FILE (A-C, X, F, Z)
1105:
1106: E destination drive for .SYM file
1107:
1108:
1109:
1110:
1111: Assembly Options That Modify Contents Of Output File
1112:
1113: L lists input lines read from macrolibrary .LIB files
1114: -L suppresses listing (default)
1115:
1116: +M lists all macro lines as they are processed during assembly
1117: -M suppresses all macro lines as they are read during assembly
1118: *M lists col. no. generated by macro expansions
1119:
1120: +C lists all LOCAL symbols in the symbol list
1121: -C suppresses all LOCAL symbols in the symbol list (default)
1122:
1123: +S appends symbol file to print file
1124: -S suppresses creation of symbol file
1125:
1126: +I produces a pass 1 listing for macro debugging in .FBN file
1127: -I suppress listing on pass 1 (default)
1128:
1129: //PATCH
1130:
1131: Syntax:
1132:
1133: PATCH filename[,type] [no]
1134:
1135: Explanation:
1136:
1137: The PATCH command displays or installs patch number n to the
1138: OEM 3 system or command files. The patch number n must be
1139: between 1 and 72 inclusive.
1140:

1141: Example:
1142:
1143: A>PATCH SHOW 2
1144: Patches the SHOW.COM system file with patch number 2.
1145:
1146: //>PIF (copy)
1147:
1148: Syntax:
1149:
1150: DEESTINATION SOURCE
1151: PIF d:[Gn] ^ filespec([Gn]) = filespec([n]),... : n:[l]l
1152:
1153: Explanations:
1154:
1155: The file copy program PIF copies files, combines files, and
1156: transfers files between disks, printers, consoles, or other
1157: devices attached to your computer. The first filespec is the
1158: destination. The second filespec is the source. Use two or more
1159: source filespace separated by commas to combine two or more files
1160: into one file. [l]l is any combination of the available options.
1161: The [Gn] option in the destination filespec tells PIF to copy
1162: your file to that user number.
1163:
1164: PIF with no command tail displays an * prompt and awaits your
1165: series of commands, entered and processed one line at a time.
1166: The source or destination can be any CP/M logical device.
1167: //>Examples
1168:
1169: COPY A FILE FROM ONE DISK TO ANOTHER
1170:
1171: A>PIF b:=a:draft.txt
1172: A:>PIF b:draft.txt = a:
1173:
1174: B>PIF myfile.dat=A:[G9]
1175: A>PIF B:[G7]=myfile.dat
1176:
1177: COPY A FILE AND RENAME IT
1178:
1179: A>PIF newdraft.txt=b:oldraft.txt
1180: C>PIF b:newdraft.txt=a:oldraft.txt
1181:
1182: COPY MULTIPLE FILES
1183:
1184: A>PIF b:=draft.*
1185: A>PIF b:=*.
1186: B>PIF b:=c:.*.*
1187: C>PIF b:=*.t t[95]
1188: C>PIF a:=*.com[wr]
1189: B>PIF a:[G3]=c:.*.*
1190:
1191: COMBINE MULTIPLE FILES
1192:
1193: A>PIF b:news.dat=filen1.dat,filen2.dat
1194:
1195: COPY, RENAME AND PLACE IN USER 1
1196:
1197: A:>PIF newdraft.t.t[G1]=oldraft.t.t
1198:
1199:
1200:

1201: COPY, RENAME AND SET FROM TEST 1
1202: ADFIF newdraft.tbt=oldraft.txt[gi]
1203: COPY TO, FROM LOGICAL DEVICES
1204: ADFIF b:funfile.sue=con:
1205: ADFIF lat:=con:
1206: ADFIF lat:=b:draft.txt[bj]
1207: ADFIF prc:=b:draft..txt
1208: /* Options
1209: PIP OPTIONS
1210:
A Archive. Copy col. files that have been changed since the last copy.
1211: C Confirm. PIP prompts for confirmation before each file copy.
1212: D Delete any characters past column n.
1213: E Echo transfer to console.
1214: F Filter form-feeds from source data.
1215: G Set from or go to user n.
1216: H Test for valid Hex format.
1217: I Ignore :CO Hex data records and test for valid Hex format.
1218: J Fill display of filespecs on console.
1219: L Translate upper case to lower case.
1220: M Number output lines
1221: O Object file transfer, Z ignored.
1222: Pn Set page length to n. (default n=60)
1223: Qs/Z Quit copying from source at string s.
1224: R Read files that have been set to SYSTEM.
1225: Ss/Z Start copying from the source at the string s.
1226: Tn Expand tabs to n spaces.
1227: U Translate lower case to upper case.
1228: V Verify that data has been written correctly.
1229: W Write over Read Only files without console query.
1230: Z Zero the parity bit.
1231: All options except C,G,I,O,R,V and A force an ASCII file transfer, character by character, terminated by a ^Z.
1232: //INPUT
1233:
1234: Syntax:
1235:
1236: PUT CONSOLE <OUTPUT TO> FILE filespec (option) | CONSOLE
1237: PUT PRINTER <OUTPUT TO> FILE filespec (option) | PRINTER
1238: PUT CONSOLE <OUTPUT TO> CONSOLE
1239: PUT PRINTER <OUTPUT TO> PRINTER
1240:
1241: Explanation:
1242:
1243: PUT puts console or printer output to a file for the next command entered at the console, until the program terminates. Then console output reverts to the console. Printer output is directed to a file until the program terminates. Then printer output is put back to the printer.
1244:
1245: PUT with the SYSTEM option directs all subsequent console/printer output to the specified file. This option

1261: terminates when you enter the PUT CONSOLE or PUT PRINTER
1262: command.

1263: **OPTIONS**

1264: ECHO (NO ECHO) (FILTER) (NO FILTER) (SYSTEM)

1265: ECHO specifies that output is echoed to the console. This
1266: is the default option when you direct console output
1267: to a file.

1268: NO ECHO specifies that file output is not echoed to the
1269: console. NO ECHO is the default for the PUT PRINTER
1270: command.

1271: FILTER specifies filtering of control characters, which
1272: means that control characters are translated to
1273: printable characters. For example, an ESCAPE
1274: character is translated to ^E.

1275: NO FILTER means that PUT does not translate control
1276: characters. This is the default option.

1277: SYSTEM specifies that system output as well as program
1278: output is written to the file specified by
1279: filespec. Output is written to the file until a
1280: subsequent PUT CONSOLE command redirects console
1281: output back to the console.

1282: / / / Examples

1283: A/PUT CONSOLE OUTPUT TO FILE XOUT ECHO

1284: Directs console output to file XOUT with the output echoed
1285: to the console.

1286: A/PUT PRINTER OUTPUT TO FILE XOUT
1287: & MYPRG

1288: Directs the printer output of program MYPRG to file
1289: XOUT. The output is not echoed to the printer.

1290: A/PUT PRINTER OUTPUT TO FILE XOUT (ECHO,SYSTEM)

1291: Directs all printer output to file XOUT as well as to the
1292: printer (with ECHO option), and the PUT is in effect until
1293: you enter a PUT PRINTER OUTPUT TO PRINTER command.

1294: A/PUT CONSOLE OUTPUT TO CONSOLE

1295: Directs console output back to the console.

1296: A/PUT PRINTER OUTPUT TO PRINTER

1297: Directs printer output back to the printer.

1298: / / / RENAME

1299: Syntax:

1321: RENAME (new-filename=old-filename)*
1322:
1323: Explanation:
1324: RENAME lets you change the name of a file in the directory of a
1325: disk. To change several filenames in one command use the * or ?
1326: wildcards in the file specifications. The RENAME command can be
1327: abbreviated REN. REN prompts you for input.
1328:
1329: // Examples
1330:
1331: A>RENAME NEWFILE.BAS=CLDFILE.BAS
1332:
1333: The file CLDFILE.BAS changes to NEWFILE.BAS on drive A.
1334:
1335: A>RENAME
1336:
1337: The system prompts for the filespecs:
1338:
1339:
1340: Enter New Name:X.PRN
1341: Enter Old Name:Y.PRN
1342: Y .PRN=X .PRN
1343: A>
1344:
1345: File X.PRN is renamed to Y.PRN on drive A.
1346:
1347: B>REN A:PRINTS.NEW = PRINCE.NEW
1348:
1349: The file PRINCE.NEW on drive A changes to PRINTS.NEW on
1350: drive A.
1351:
1352: A>RENAME S*.TEX=A*.TEX
1353:
1354: The above command renames all the files matching
1355: A*.TEX to files with filenames S*.TEX.
1356:
1357: A>REN B:NEWLIST=B:OLDLIST
1358:
1359: The file OLDLIST changes to NEWLIST on drive B. Since the
1360: second drive specifier, B: is implied by the first one, it
1361: is unnecessary in this example. The command line above has
1362: the same effect as the following:
1363:
1364: A>REN B:NEWLIST=OLDLIST
1365: or
1366: A>REN NEWLIST=B:OLDLIST
1367:
1368: // 15MAC
1369:
1370: Syntax:
1371:
1372: FMAC filespec (@Rd : \$d : \$Fd)
1373:
1374: Explanation:
1375:
1376: FMAC, a relocatable macro assembler, assembles .ASM files of
1377: into .REL files that you can link to create .COM files.
1378:
1379: // Options
1380:

1381: AMAC options specify the destination of the output files.
1382: Replace d with the destination drive letter for the output files.
1383:
1384: Option d=output option
1385:
1386: F= drive for SEL file (A-C, Z)
1387: S= drive for SYM file (A-C, X, F, Z)
1388: P= drive for PRN file (A-C, X, F, Z)
1389:
1390: A-C specifies drive A-C.
1391: X means output to the console.
1392: F means output to the printer.
1393: Z means port output.
1394:
1395: //VCEExample
1396:
1397: A>MAC TEST SPX SB PZ
1398:
1399: Assembles the file TEST.ASM from drive A, sends the listing
1400: file (TEST.PRN) to the console, puts the symbol file
1401: (TEST.SYM) on drive B and puts the relocatable object
1402: file (TEST.REL) on drive B.
1403:
1404: //VISAVE.
1405:
1406: Syntax:
1407:
1408: SAVE
1409:
1410: Explanations:
1411:
1412: SAVE copies the contents of memory to a file. To use SAVE,
1413: first issue the SAVE command, then run your program which needs a
1414: file into memory. Your program exits to the SAVE utility, which
1415: prompts you for a filespec to which it copies the contents of
1416: memory, and the beginning and ending address of the memory to be
1417: SAVED.
1418:
1419: //VCEExample
1420:
1421: A>SAVE.
1422:
1423: Activates the SAVE utility. Now enter the name of the program
1424: which loads a file into memory.
1425:
1426: A>SID dump.com
1427:
1428: Next, execute the program.
1429:
1430: #go
1431:
1432: When the program exits, SAVE intercepts the return to the system
1433: and prompts the user for the filespec and the bounds of memory to
1434: be SAVED.
1435:
1436: SAVE Ver 3.0
1437: Enter file (type RETURN to exit):dump2.com
1438:
1439: If file DUMP2.COM exists already, the system asks:
1440:

1441: Delete dump2.com? Y
1442:
1443: Then the system asks for the bounds of memory to be saved:
1444:
1445: Beginning hex address: 100
1446: Ending hex address: 400
1447:
1448: The contents of memory from 100H (Hexadecimal) to 400H is copied
1449: to file DUMP2.COM.
1450:
1451: //13SET
1452:
1453: Syntax:
1454:
1455: SET [options]
1456: SET d: [options]
1457: SET filespec [options]
1458:
1459: Explanation:
1460:
1461: SET initiates password protection and time stamping of
1462: files. It also sets the file and drive attributes Read-Write,
1463: Read-Only, DIR and SYS. It lets you label a disk and password
1464: protect the label. To enable time stamping of files, you
1465: must first run INITDIR to format the disk directory.
1466:
1467: //2Label
1468:
1469: Syntax:
1470:
1471: SET (d:) LNAME=labelname.type
1472: SET [PASSWORD=password]
1473: SET [PASSWORD=<cr>]
1474:
1475: //2Examples
1476:
1477: A:SET LNAME=DISK100
1478:
1479: Labels the disk in the default drive as DISK100.
1480:
1481: A:SET [PASSWORD=SECRET0]
1482:
1483: Assigns SECRET to the disk label.
1484:
1485: A:SET [PASSWORD=<cr>]
1486:
1487: Nullifies the existing password.
1488:
1489: //2Passwords
1490:
1491: SET [PROTECT=ON]
1492: SET [PROTECT=OFF]
1493: SET filespec [PASSWORD=password]
1494: SET filespec [PROTECT=READ]
1495: SET filespec [PROTECT=WRITE]
1496: SET filespec [PROTECT=DELETE]
1497: SET filespec [PROTECT=NONE]
1498: SET filespec [attribute-options]
1499:
1500: //3Modes

1501: 1502: 1503: 1504: Mode Protection
1505: 1506: READ The password is required for reading, copying
1507: writing, deleting or renaming the file.
1508: 1509: WRITE The password is required for writing, deleting or
1510: renaming the file. You do not need a password to
1511: read the file.
1512: 1513: DELETE The password is only required for deleting or
1514: renaming the file. You do not need a password to
1515: read or modify the file.
1516: 1517: NONE No password exists for the file. If a password
1518: password exists, this modifier can be used to
1519: delete the password.
1520:
1521: // /DAttributes
1522:
1523: RO sets the file attribute to Read-Only.
1524: RW sets the file attribute to Read-Write.
1525: SWS sets the file attribute to SWS.
1526: DSF sets the file attribute to DSF.
1527: 1528: 1529: 1530: 1531: ARCHIVE=OFF means that the file has not been backed up
1532: (archived).
1533: 1534: ARCHIVE=ON means that the file has been backed up (archived).
1535: The Archive attribute can be turned on by SET or
1536: by FIP when copying a group of files with the
1537: FIP[AO] option. SHOW and DIR display the Archive
1538: option.
1539: 1540: F1=ON|OFF turns on or off the user-definable file attribute
1541: F1.
1542: 1543: F2=ON|OFF turns on or off the user-definable file attribute
1544: F2.
1545: 1546: F3=ON|OFF turns on or off the user-definable file attribute
1547: F3.
1548: 1549: F4=ON|OFF turns on or off the user-definable file attribute
1550: F4.
1551:
1552: // /3Examples
1553:
1554: SET (P)PROTECT=ON
1555:
1556: Turns on password protection for all the files on the disk.
1557: You must turn on password protection before you can assign
1558: passwords to files.
1559: 1560: SET (P)PROTECT=OFF

1561:
1562: Disables password protection for the files on your disk.
1563:
1564: ASET MYFILE.TEX [PASSWORD=MYFILE]
1565:
1566: MYFILE is the password assigned to file MYFILE.TEX.
1567:
1568: BSET *.TEX [PASSWORD=SECRET, FPROTECT=WRITE]
1569:
1570: Assigns the password SECRET to all the TEX files on drive B.
1571: Each TEX file is given a WRITE protect mode to prevent
1572: unauthorized editing.
1573:
1574: ASET MYFILE.TEX [RO SYS]
1575:
1576: Sets MYFILE.TEX to Read-Only, and SYStem.
1577:
1578: //ZDefault
1579:
1580: ASET [DEFAULT=dd]
1581:
1582: Instructs the system to use dd as a password if you do not
1583: enter a password for a password-protected file.
1584:
1585: //ZETime-Stamp
1586:
1587: Syntax:
1588:
1589: SET [CREATE=ON]
1590: SET [ACCESS=ON]
1591: SET [UPDATE=ON]
1592:
1593: Explanation:
1594:
1595: The above SET commands allow you to keep a record of the time
1596: and date of file creation and update, or of the last access and
1597: update of your files.
1598:
1599: //ZOptions
1600:
1601: [CREATE=ON] turns on CREATE time stamps on the disk in the
1602: default or specified drive. To record the
1603: creation time of a file, the CREATE option must be
1604: turned on before the file is created.
1605:
1606: [ACCESS=ON] turns on ACCESS time stamps on the disk in the
1607: default or specified drive. ACCESS and CREATE
1608: options are mutually exclusive; only one can be in
1609: effect at a time. If you turn on the ACCESS time
1610: stamp on a disk that previously had CREATE
1611: time stamp, the CREATE time stamp is
1612: automatically turned off.
1613:
1614: [UPDATE=ON] turns on UPDATE time stamps on the disk in the
1615: default or specified drive. UPDATE time stamps
1616: record the time the file was last modified.
1617:
1618: //ZEamples
1619:
1620: ASET [ACCESS=ON]

1621: A:SET [CREATE=ON,UPDATE=ON] **
1622:
1623: //2Drives
1624:
1625: Syntax:
1626:
1627: SET (d:) [R/O]
1628: SET (d:) [R/W]
1629:
1630:
1631: Example:
1632:
1633: A:SET B: [R/O]
1634:
1635: Sets drive B to Read-Only.
1636:
1637: //1SETDEF
1638:
1639: Syntax:
1640:
1641: SETDEF C:d: C,d: [d:][DDDD] [TEMPORARY = d:] [ORDER = 'typ [t,typ]']
1642: [DISPLAY | NO DISPLAY]
1643:
1644: SETDEF [PAGE | NOPAGE]
1645:
1646:
1647: Explanation:
1648:
1649: SETDEF allows the user to display or define up to four drives
1650: for the program search order, the drive for temporary files, and
1651: the file type search order. The SETDEF definitions affect
1652: only the loading of programs and/or execution of SUBMIT
1653: (SUB) files. SETDEF turns on/off the system Display and Console
1654: Page modes. When on, the system displays the location and name
1655: of programs loaded or SUBmit files executed, and stops after
1656: displaying one full console screen of information.
1657:
1658: //1SETDEF examples
1659:
1660: A:SETDEF
1661:
1662: Displays current SETDEF parameters.
1663:
1664: A:SETDEF [TEMPORARY=C:]
1665:
1666: Sets disk drive C as the drive to be used for temporary
1667: files.
1668:
1669: A:SETDEF C:,*
1670:
1671: Tells the system to search for a program on drive C, then,
1672: if not found, search for it on the default drive.
1673:
1674: A:SETDEF [ORDER=(SUB,COM)]
1675:
1676: Instructs the system to search for a SUB file to execute.
1677: If no SUB file is found, search for a COM file.
1678:
1679: A:SETDEF [DISPLAY]
1680:

1681: Turns on the system display mode. "Henceforth, the selected
1682: displays the name and location of programs loaded or written
1683: files selected.

1684: AT SETDEF AND DISPLAY Turns off the system Display mode.

1685: /V /NISHOW

1686: Syntax:

1687: SHOW [d:][:C]SPACE [LABEL] [USER] [DIR] [/FIVE]

1688: Explanation:

1689: The SHOW command displays the following disk drive information:

1690: Access mode and the amount of free disk space
1691: Disk label
1692: Current user number and
1693: Number of files for each user number on the disk
1694: Number of free directory entries for the disk
1695: Drive characteristics

1696: AT /DE Examples

1697: AT SHOW

1698: AT SHOW [C]SPACE

1699: Instructs the system to display access mode and amount of
1700: space left on logged-in drives.

1701: AT SHOW B:

1702: Show access mode for drive B and amount of space left in
1703: drive B.

1704: AT SHOW B:[LABEL]

1705: Displays label information for drive B.

1706: AT SHOW [USER]

1707: Displays the current user number and all the users on drive
1708: A and the corresponding number of files assigned to them.

1709: AT SHOW C:[DIR]

1710: Displays the number of free directory entries on drive C.

1711: AT SHOW [/FIVE]

1712: Displays the drive characteristics of drive A.

1713: /V /NISD

1714: Syntax:

1715: SID [sym-fil espec] [, sym-fil espec]

1716: 1717: 1718: 1719: 1720: 1721: 1722: 1723: 1724: 1725: 1726: 1727: 1728: 1729: 1730: 1731: 1732: 1733: 1734: 1735: 1736: 1737: 1738: 1739: 1740:

1741: Explanations

1742:
 1743: The SID symbolic debugger allows you to monitor and test
 1744: programs developed for the 8080 microprocessor. SID supports
 1745: real-time breakpoints, fully monitored execution, symbol
 1746: disassembly, assembly, and memory display and fill functions.
 1747: SID can dynamically load SID utility programs to provide
 1748: traceback and histogram facilities.

1749: //CCCommands

| 1750: | Command | Meaning |
|-------|---------------------------------|---|
| 1751: | | |
| 1752: | Ae | (Assembly) Enter assembly language statements |
| 1753: | | s is the start address |
| 1754: | Cs(b[,d]) | (Call) Call to memory location from SID |
| 1755: | | s is the called address |
| 1756: | | b is the value of the BC register pair d is the value of the DE register pair |
| 1757: | | |
| 1758: | DW(a[,f]) | (Display) Display memory in hex and ASCII |
| 1759: | | w is a 16-bit word format |
| 1760: | | s is the start address |
| 1761: | | f is the finish address |
| 1762: | | |
| 1763: | E(pgm-filespec [,sym-filespec]) | (Load) Load program and symbol table for execution |
| 1764: | | |
| 1765: | E*sym-filespec | (Load) Load a symbol table file |
| 1766: | | |
| 1767: | F[a[,f],d] | (Fill) Fill memory with constant value |
| 1768: | | s is the start address |
| 1769: | | f is the finish address |
| 1770: | | d is an eight-bit data item |
| 1771: | | |
| 1772: | G[b][t,a],b00 | (Go) Begin Execution |
| 1773: | | b is a start address |
| 1774: | | a is a temporary breakpoint |
| 1775: | | |
| 1776: | H | (Hex) Displays all symbols with addresses in Hex |
| 1777: | | Displays hex, decimal, and ASCII values of a where |
| 1778: | | a is a symbolic expression |
| 1779: | H[a,b] | Computes hex sum and difference of a and b where |
| 1780: | | a and b are symbolic expressions |
| 1781: | | |
| 1782: | Icommand tail | (Input) Input CCP command line |
| 1783: | | |
| 1784: | L[a][t,f]) | (List) List 8080 mnemonic instructions |
| 1785: | | s is the start address |
| 1786: | | f is the finish address |
| 1787: | | |
| 1788: | M[a,b,c] | (Move) Move Memory Block |
| 1789: | | s is the start address |
| 1790: | | |
| 1791: | | |
| 1792: | | |
| 1793: | | |
| 1794: | | |
| 1795: | | |
| 1796: | | |
| 1797: | | |
| 1798: | | |
| 1799: | | |
| 1800: | | |

| | | | |
|-------|--|-----------|---|
| 1801: | | | |
| 1802: | | | |
| 1803: | | | |
| 1804: | P@C,c00 | (Pass) | b is the high address of the block c is the destination start address |
| 1805: | | | |
| 1806: | R@lespec,c,d | (Read) | Pass point set, reset, and display. d is a permanent breakpoint address c is initial value of pass counter |
| 1807: | | | |
| 1808: | G@Wl,s | (Set) | Read Code/Symbols s is an offset to each address |
| 1809: | | | |
| 1810: | | | |
| 1811: | S@Wl,s | (Set) | Set Memory Values s is address where value is sent |
| 1812: | | | |
| 1813: | | | |
| 1814: | | | |
| 1815: | T@n1,c00 | (Trace) | Trace Program Execution n is the number of program steps c is the utility entry address. |
| 1816: | | | |
| 1817: | | | |
| 1818: | T@W@Cn1,c00 | (Trace) | Trace Without Call W instructs SID not to trace subroutines |
| 1819: | | | n is the number of program steps |
| 1820: | | | c is the utility entry address |
| 1821: | | | |
| 1822: | | | |
| 1823: | | | |
| 1824: | U@W@Cn1,c00 | (Untrace) | Monitor Execution without Trace n is the number of program steps c is the utility entry address W instructs SID not to trace subroutines |
| 1825: | | | |
| 1826: | | | |
| 1827: | | | |
| 1828: | | | |
| 1829: | | | |
| 1830: | | | |
| 1831: | V | (Value) | Display, the value of the next available location in memory (NEXT), the next location after the largest file read in (MSZE), the current value of the Program Counter (PC), and the address of the end of available memory (END). |
| 1832: | | | |
| 1833: | | | |
| 1834: | | | |
| 1835: | | | |
| 1836: | | | |
| 1837: | | | |
| 1838: | | | |
| 1839: | W@lespec,a,f | (Write) | Write the contents of a contiguous block of memory to filespec. f is finish address |
| 1840: | | | |
| 1841: | | | |
| 1842: | | | |
| 1843: | X{#}(r) | (Examine) | Examine/alter CPU state. # is flag bit S,I,M,E or L. r is register A,B,D,H,S or F. |
| 1844: | | | |
| 1845: | | | |
| 1846: | | | |
| 1847: | / / Examples | | |
| 1848: | | | |
| 1849: | A@SID | | |
| 1850: | | | |
| 1851: | C@M I loads SID from drive A into memory. SID displays the | | |
| 1852: | # prompt when it is ready to accept commands. | | |
| 1853: | | | |
| 1854: | A@B:SID SAMPLE.HEX | | |
| 1855: | | | |
| 1856: | C@M I loads SID and the program file SAMPLE.HEX into memory, | | |
| 1857: | from drive B. | | |
| 1858: | | | |
| 1859: | / / Utilities | | |
| 1860: | | | |

1861: SID Utilities. HIST.UTL and TRACE.UTL are special programs that
1862: operate with SID to provide additional debugging facilities. The
1863: mechanisms for system initialization, data collection, and
1864: data display are described in the CP/M SID User's Guide.
1865:
1866: The HIST utility creates a histogram (bar graph) showing the
1867: relative frequency of execution of code within selected
1868: program segments of the test program. The HIST utility allows
1869: you to monitor those sections of code that execute most
1870: frequently.
1871:
1872: The TRACE utility obtains a backtrace of the instructions that
1873: led to a particular breakpoint address in a program under test.
1874: You can collect the addresses of up to 256 instructions
1875: between pass points in U or T modes.
1876:
1877: //1SUBMIT
1878:
1879: Syntax:
1880:
1881: SUBMIT [filespec] [argument] ... [argument]
1882:
1883: Explanation:
1884:
1885: - The SUBMIT command lets you execute a group (batch) of
1886: commands from a SUBmit file (a file with filetype of SUB).
1887:
1888: //12Subfile
1889:
1890: The SUB file can contain the following types of lines:
1891:
1892: Any valid CP/M 3 command
1893: Any valid CP/M 3 command with SUBMIT parameters (\$0-\$9)
1894: Any data input line
1895: Any program input line with parameters (\$0 to \$9)
1896:
1897: The command line cannot exceed 135 characters.
1898:
1899: The following lines illustrate the variety of lines which may
1900: be entered in a SUB file:
1901:
1902: DIR
1903: DIR *.BAK
1904: MAC \$1 \$\$\$4
1905: PIP LST:\$1.PRNCT\$2 \$3 \$5J
1906: DIR *.ASM
1907: PIP
1908: <P1:=*.ASM
1909: <CON:=DUMP.ASM
1910: <
1911: DIR B:
1912:
1913: //12Execute
1914:
1915: Syntax:
1916:
1917: SUBMIT
1918: SUBMIT filespec
1919: SUBMIT filespec argument ... argument
1920:

1921: // Examples:
1922:
1923: A:SUBMIT
1924: A:SUBMIT SUBA
1925: A:SUBMIT AA ZZ EZ
1926: A:SUBMIT B:START DIR E:
1927:
1928: // // PROFILE.SUB
1929:
1930: Everytime you power up or reset your computer, CP/M I looks for a
1931: special SUBmit file named PROFILE.SUB to execute. If it does not
1932: exist, CP/M I resumes normal operation. If the PROFILE.SUB file
1933: exists, the system executes the commands in the file. This file
1934: is convenient to use if you regularly execute a set of commands
1935: before you do your regular session on the computer.
1936:
1937: // // TYPE
1938:
1939: Syntax:
1940:
1941: TYPE [filespec] [] [] [
1942:
1943: Explanation:
1944:
1945: The TYPE command displays the contents of an ASCII
1946: character file on your screen.
1947:
1948: [] Causes the console listing to be displayed in paged
1949: mode; i.e., stop automatically after listing n lines
1950: of text, where n normally defaults to 24 lines per
1951: page.
1952:
1953: [] Turns off Console Page Mode and continuously displays a
1954: typed file on the screen.
1955:
1956: // // Examples
1957:
1958: A:TYPE MYPROG.PLI
1959:
1960: Displays the contents of the file MYPROG.PLI on your screen.
1961:
1962: A:TYPE B:THISFILE []
1963:
1964: Displays the contents of the file THISFILE from drive B on
1965: your screen twenty four lines at a time.
1966:
1967: // // USER
1968:
1969: Syntax:
1970:
1971: USER [Number]
1972:
1973: Explanation:
1974:
1975: The USER command sets the current user number. The disk
1976: directory can be divided into distinct groups according to a
1977: "User Number." User numbers range from 0 through 15.
1978:
1979: // // Examples
1980:

1981: 214525
1982: Enter User #: 5
1983: 52>
1984: The current user number is now 5 on drive A.
1985: ADUSER 7
1986: 7A>
1987:
1988:
1989:
1990: This command changes the current User Number to 7.
1991:
1992: /? XREF
1993:
1994: Syntax:
1995:
1996: XREF [d:] filename [SP]
1997:
1998: Explanation:
1999:
2000: XREF provides a cross-reference summary of variable usage
2001: in a program. XREF requires the .PRN and .SYM files produced
2002: by MAC or RMAC for input to the program. The SYM and PRN files
2003: must have the same filename as the filename in the XREF command
2004: line. XREF outputs a file of type .XRF.
2005:
2006: Examples:
2007:
2008: AXREF b:MYPRN.SYM
2009:
2010: AXREF b:MYPRN.SYM SP
2011: