Z-System C O M M A N D S

All programs and utilities provided in the ZCPR3 System are used in conjunction with **Z-Com**. The more important ones are briefly described here, but the online HELP facility gives full details on these and all remaining. After Z-System is installed put HELP.COM and the HLP files on the current disk and type **HELP ZCPR3** or **ZRDOS1** for full help menu. Where assist is appropriate, command syntax and usage is obtained by typing <**command**> //<**cr**>.

AC AC copies files from one location to another with verification option, while setting file archive attribute. Only changed files are copied.

ALIAS The ALIAS utility is used to create an Alias file and to display its contents. An Alias is essentially a text script, expanded and resolved (with parameter passing) when the Alias program is run. Very complex command lines, complete with Flow Control (IF), can be included within an Alias.

CD CD permits going from one directory to another, simultaneously running an environmental file (ST.COM) to establish the desired conditions in a directory area. CD may require a password to move to a new directory.

CLEANDIR Removes de-allocated references to files in the disk directory track area, sorts the existing files in ascending or descending alpha order and packs the names together. Used often nearly guarantees successful UNERASE.

COMP Compare two files displaying byte for byte match and difference.

CPSEL Selects one of two consoles and one of four printers known to system. Line and page length, and whether form-feeds are used are selected.

CRC Runs a Cyclic Redundancy Check on specified files, optionally creating a file of the values. Useful to make sure files are identical.

DIR Sorted current or declared directory files with sizes and disk space used and remaining are displayed on console with this command.

DFA Display file attributes: read-only, read-write, archive, wheel byte write-protected, etc. Wild card file declaration permitted.

ELSE The ELSE command is FCP-resident and toggles the Flow State. If the current IF condition is TRUE, ELSE toggles it to FALSE, and vice-versa.

ERA The ERA utility is used to remove (de-allocate) files from disks. It is resident in either the RCP segment or in the ZCPR3 CCP module.

ERASE The ERASE utility is the transient counterpart of ERA. It is much more powerful than ERA, containing many more options and features.

ERRORn One of four error handlers may be dynamically installed by entering their command name. ERROR2 is screen oriented. Recover from a non-executable command is handled gracefully.

ERRORX The current error handler is disengaged with this command.

FI FI is an FCP-resident command which terminates the current IF. FI is the same as ENDIF in concept (there is no ENDIF command in Z System).

HELP The HELP command provides full online documentation. Typing **HELP ZCPR3** or **ZRDOS1** brings a menu of commands to peruse, covering all aspects of Z System operation. **ZCPR3: The Manual** is used for further command information.

IF IF is an FCP-resident command which tests a condition and sets the Flow Control State to True or False. If the Flow Control State is False, only FCP-resident commands are executed with all other commands skipped.

MKDIR Named directories are created with MKDIR. Any Disk or User Area can be given an up-to-eight-character name. An access password is optionally permitted with each named directory.

MCOPY MCOPY copies files to and from directories. It provides an easy way to back-up files. (CP from an RCP also copies and optionally renames files.)

MENU The MENU command runs the MENU Subsystem under ZCPR3. MNU menus are created with your editor following rules detailed in the HELP file system.

PAGE   The PAGE command sends text files to CRT console screen for operator viewing. More than one file may be viewed sequentially, skipped, with screen wordwrap if line length exceeds screen width.

PATH   The PATH command allows you to display and change your command-search path dynamically.

PRINT   The PRINT command provides full page printing of text files on the printer. CPSEL selects the printer characteristics. Page heading and numbering, and sequential file printing, with wordwrap, are available.

PROTECT   Files are declared Read-Only, System, Archive, or Read-Write, singularly or in wild-card file groups, with PROTECT.

REN   Renaming files is performed with resident REN or with the more powerful transient RENAME.

PWD   The PWD command prints the names of available Working Directories.

SAK   Strike Any Key, used in command lines to suspend execution for a specified time or cancel next operation, alert operator with console bell, cancel, or proceed after delay, if operator not available.

SFA   Set file attributes: read-write, read-only, archive, wheel byte write-protected, etc. Wild card file declaration permitted.

SETFILE   Allows declaring up to four system file names to be used with shell programs, MENU, VMENU, SAK, ALIAS, etc. SHOW indicates system files active.

SHOW   SHOW prints a menu of options to permit recalling the status of the ZCPR3 environment. Buffer address locations, command line length, system cpu speed, maximum drive and user areas permitted, all on 11 screens of information. **SHOW E** installs Show as an error handler.

SHCTRL   Shell Control permits getting out of a shell, popping the stack.

UNERASE   The UNERASE command permits recovering accidentally erased files. Recovery must be made before starting any further disk drive activities.

VFILER   VFILER is Z System screen-oriented file manipulation utility. Permits pointing to files in directory and performing many operations on them: compute sizes, view, print, copy, delete, unsqueeze, or tag (wild cards allowed) for group (mass) action. Ten macro commands from custom CMD menus.

VMENU   The VMENU command is used to run the VMENU Subsystem of ZCPR3. VMENU uses *.VMN command files for full menu control of the environment. Portions of a directory are listed at top of the menu screen.

WHEEL   WHEEL permits changing the system from secure to unsecure. If secure, passwords are needed to access established directories and certain utilities may not be used: ALIAS, MKDIR, etc. The preset password is SYSTEM.

XD   The XD command is one of the three transient file directory display utilities provided with ZCPR3. It has features between DIR and XDIR.

XDIR   The XDIR command is the most powerful of the three supplied file directory listing programs.

Z - C O M   I N S T A L L A T I O N

1. Make a copy of Z-Com master disks and put masters away.

2. Put a copy of your CP/M system on working Z-Com disk #1, using **SYSGEN** supplied with your computer hardware. Place Z-Com disk #1 in Drive A. As an alternate way, copy all the Z files of disk #1 onto a CP/M disk in Drive A.

3. Type **SUB ZCCOM <cr>** and watch installation automatically occur. It takes less than two minutes. Near end of installation, program TCSELECT (terminal capability select) is invoked and you are asked to select your terminal or computer from the menus. After selection, Z is up and running. Place **HLP** files where it's convenient to access them.

4. After installation, Z is activated simply by typing **ZC <cr>**. Z exit command is **ZCX <cr>**. (Be sure to read the READ.ME file on Z-Con disk #2.)

More frequently used commands are briefly described here. The online HELP
facility gives full details on these and remaining commands. **ZCPR3: The
Manual** is the bible for command descriptions. After installing the Z3 system,
put HELP.COM and the HLP files on the current disk or along the file search
path and type **HELP ZCPR3** for full help menu. At the command line, immediate
syntax help is available (if assist information is appropriate) by typing
<command> // <cr>.

ALIAS   The ALIAS utility is used to create an Alias file and to display its
contents. An Alias is essentially a text script, expanded and resolved (with
parameter passing) when the Alias program is run. Very complex command lines,
complete with Flow Control (IF), can be included within an Alias.

CD   The CD command permits going from one directory to another, simul-
taneously running an environmental file (ST.COM) to establish the desired
conditions in a directory area. CD may require a password to move to a new
directory.

CLEANDIR Removes all de-allocated references to files in the disk directory
track area, sorts the existing files in ascending or descending alpha order
and packs the names together. Used often nearly guarantees successful
UNERASE.

COMMENT   Once entered all text typed at keyboard is ignored by operating
system. Useful to output text to printer while not having the computer
attempt to act on it. Special prompt provided.

CPSEL   Selects one of two consoles and one of four printers known to
system. Line and page length, and whether form-feeds are used are selected.

CRC   Runs a Cyclic Redundancy Check on specified files, optionally
creating a file of the values. Useful to make sure files are identical.

DIFF   Determines the line by line different between two files.

DIR   Current or declared directory files with file sizes and disk space
used and remaining are displayed sorted on the console with this command.

DU3   Disk Utility provides full screen-oriented direct disk editor
features. Four screens of command information are available by typing "?".

ECHO   Text entered at the command line is typed to screen without the
operating system acting on it. Useful to display messages from Aliases and
between multiple commands of a multiple command line.

ELSE   The ELSE command is FCP-resident and toggles the Flow State. If the
current condition is TRUE, ELSE toggles it to FALSE, and vice-versa.

ERA   The ERA utility is used to remove (de-allocate) files from disks.
It is resident in either the RCP or in the ZCPR3 CP.

ERASE   The ERASE utility is the transient counterpart of ERA. It is much
more powerful than ERA, containing many more options and features.

ERRORn   One of four error handlers may be dynamically installed by entering
their command name. ERROR2 is screen oriented. Recovery from a non-
executable command is handled efficiently and gracefully.

ERRORX   The current error handler is disengaged with this command.

FI   FI is an FCP-resident command which terminates the current IF. FI
is the same as ENDIF in concept (there is no ENDIF command in ZCPR3).

FINDF   Searches for declared files in all user areas or disks in system.
Wild card (? and *) and multiple file names permitted.

HELP   The HELP command provides full online documentation. Typing **HELP
ZCPR3** brings a menu of commands to peruse, covering all aspects of ZCPR3
System operation. **ZCPR3: The Manual** is used for further command information.

IF   IF is an FCP-resident command which tests a condition and sets the
Flow Control State to True or False. If the Flow Control State is False, only

FCP-resident commands are executed and all other commands are skipped.

MKDIR   Named directories are created with MKDIR. Any Disk or User Area can be given an up-to-eight-character name. An access password is optionally permitted with each named directory.

MCOPY   MCOPY copies files to and from directories. It provides an easy way to back-up files. (CP from an RCP also copies and optionally renames files.)

MENU   The MENU command runs the MENU Subsystem under ZCPR3. MNU menus are created with your editor following rules detailed in the HELP file system.

MU3   Memory Utility provides direct local memory (RAM) editing. Useful to observe immediate changes to selected areas of memory.

NOTE   Similar to COMMENT, but without special prompt and active for only one line. Text typed is not acted upon by computer.

PAGE   The PAGE command sends text files to CRT console screen for operator viewing. More than one file may be viewed sequentially, skipped, with screen wordwrap if line length exceeds screen width.

PATH   The PATH command allows you to display and change your command-search path dynamically.

PRINT   The PRINT command provides full page printing of text files on the printer. CPSEL selects the printer characteristics. Page heading and numbering, and sequential file printing, with wordwrap, are available.

PROTECT Files are declared Read-Only, System, Archive, or Read-Write, singularly or in wild-card file groups, with PROTECT.

QUIET   Entering QUIET reduces text output from most utility programs to minimum required for operation.

REN   Renaming files is performed with resident REN or with the more powerful transient RENAME.

PWD   The PWD command prints the names of available Working Directories.

SAK   Strike Any Key, used in command lines to suspend execution for a specified time or cancel next operation, alert operator with console bell and prompt, or proceed after delay, if operator not available.

SETFILE Allows declaring up to four system file names to be used with shell programs, MENU, VMENU, SAK, ALIAS, etc. SHOW indicates system files active.

SHOW   The SHOW command prints a menu of options to permit recalling the status of the ZCPR3 environment. Buffer address locations, command line length, system cpu speed, maximum drive and user areas permitted, all on eleven screens of information. **SHOW E** installs Show as an error handler.

SHCTRL   Shell Control permits getting out of a shell, popping the stack.

UNERASE The UNERASE command permits recovering accidentally erased files. Recovery must be made before starting any further disk drive activities.

VFILER   The VFILER utility is the ZCPR3 screen-oriented file manipulation facility. It allows you to point to a file in your directory and perform a number of operations on it, such as compute its size, view it, print it, copy it, delete it, or tag for group operations.

VMENU   The VMENU command is used to run the VMENU Subsystem of ZCPR3. VMENU uses *.VMN command files for full menu control of the environment. Portions of a directory are listed at top of the menu screen.

WHEEL   The WHEEL command permits changing the system from secure to unsecure. If secure, passwords are needed to access established directories and certain utilities may not be used: ALIAS, MKDIR, etc. The preset password is the word: SYSTEM.

XD   The XD command is one of the three transient file directory display utilities provided with ZCPR3. It has features between DIR and XDIR.

XDIR   The XDIR command is the most powerful of the three supplied file directory listing programs; to printer, to disk file for comparisons, sorts vertically or horizontally, shows files is all user areas, etc.

Z-System COMMANDS

Frequently used commands are briefly described here. The online HELP facility gives full details on these and remaining commands. **ZCPR3: The Manual** is the bible for command descriptions. After installing Z-System, put HELP.COM and the HLP files on the current disk or along the file search path and type **HELP ZCPR3** or **HELP ZRDOS1** for help menus. At the command line, immediate usage and syntax help is available (if assist information is appropriate) by typing **<command> //<cr>**.

AC   AC copies files from one location to another with verification option, while setting file archive attribute. Only changed files are copied.

ALIAS   The ALIAS utility is used to create an Alias file and to display its contents. An Alias is essentially a text script, expanded and resolved (with parameter passing) when the Alias program is run. Very complex command lines, complete with Flow Control (IF), can be included within an Alias.

CD   CD permits going from one directory to another, simultaneously running an environmental file (ST.COM) to establish the desired conditions in a directory area. CD may require a password to move to a new directory.

CLEANDIR   Removes de-allocated references to files in the disk directory track area, sorts the existing files in ascending or descending alpha order and packs the names together. Used often nearly guarantees successful UNERASE.

COMMENT   Once entered all text typed at keyboard is ignored by operating system. Useful to output text to printer while not having the computer attempt to act on it. Special prompt provided.

COMP   Compare two files displaying byte-for-byte match and difference. Split screen display, both hex and ASCII, eases comparison.

CPSEL   Selects one of two consoles and one of four printers known to system. Line and page length, and whether form-feeds are used are selected.

CRC   Runs a Cyclic Redundancy Check on specified files, optionally creating a file of the values. Useful to make sure files are identical.

DIFF   Determines line by line different between two files.

DIR   Sorted current or declared directory files with sizes and disk space used and remaining are displayed on console with this command, by file name or type. Displays directory name, if one.

DFA   Display file attributes: read-only, read-write, archive, wheel byte write-protected, etc. Wild card file declaration permitted.

DU3   Disk Utility provides full screen-oriented direct disk editor features. Four screens of command information are available by typing "?".

ELSE   The ELSE command is FCP-resident and toggles the Flow State. If the current IF condition is TRUE, ELSE toggles it to FALSE, and vice-versa.

ERA   The ERA utility is used to remove (de-allocate) files from disks. It is resident in either the RCP segment or in the ZCPR3 CCP module.

ECHO   Text entered at the command line is typed to screen without the operating system acting on it. Useful to display messages from Aliases and between multiple commands of a multiple command line.

ERASE   The ERASE utility is the transient counterpart of ERA. It is more powerful than ERA, containing many more options and features.

ERRORn   Four error handlers dynamically installed by entering their command name. ERROR2 is screen oriented; recover from a non-executable command in multiple command lines is handled gracefully and quickly.

ERRORX   The current error handler is disengaged with this command.

FI   FI is an FCP-resident command which terminates the current IF. FI is the same as ENDIF in concept (there is no ENDIF command in Z-System).

FINDF   Searches for declared files in all user areas and disks in system. Wild card (? and *) and multiple file names permitted.

GOTO   Unconditional branch in ZEX files; used to create loops in flow control testing.

HELP   The HELP command provides online documentation. Typing **HELP ZCPR3** or **ZRDOS1** brings a menu of commands to peruse, covering all aspects of Z-System operation. **ZCPR3: The Manual** is used for further command information.

IF   IF is an FCP-resident command which tests a condition and sets the Flow Control State to True or False. If the Flow Control State is False, only FCP-resident commands are executed with all other commands skipped.

MKDIR   Named directories are created with MKDIR. Any Disk or User Area can be given an up-to-eight-character name. An access password is optionally permitted with each named directory.

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MU3   Memory Utility provides direct local memory (RAM) editing. Useful to observe immediate changes to selected areas of memory.

NOTE   Similar to COMMENT, but without special prompt and active for only one line. Text typed is not acted upon by computer.

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PATH   The PATH command allows you to display and change your command-search path dynamically.

PRINT   The PRINT command provides full page printing of text files on the printer. CPSEL selects the printer characteristics. Page heading and numbering, and sequential file printing, with wordwrap, are available.

PROTECT   Files are declared Read-Only, System, or Read-Write, singularly or in wild-card file groups, with PROTECT.

QUIET   Entering QUIET reduces text output from most utility programs to minimum required for operation.

REN   Renaming files is performed with resident REN or with the more powerful transient RENAME.

PWD   The PWD command prints the names of available Working Directories.

SAK   Strike Any Key, used in command lines to suspend execution for a specified time or cancel next operation, alert operator with console bell, cancel, or if operator not available proceed after delay.

SFA   Set file attributes: read-write, read-only, archive, wheel byte write-protected, etc. Wild card file declaration permitted.

SETFILE   Allows declaring up to four system file names to be used with shell programs, MENU, VMENU, SAK, ALIAS, etc. SHOW indicates system files active.

SHOW   SHOW prints a menu of options to permit recalling the status of the ZCPR3 environment. Buffer address locations, command line length, system cpu speed, maximum drive and user areas permitted, all on 11 screens of information. **SHOW E<cr>** installs Show as an error handler.

SH   Model shell program ready-to-use; internal commands are: ? for help, SHCMT for comment entry, SHECHO for message text echo, and SHEXIT for exiting the shell.

SHCTRL   Shell Control permits getting out of a shell, popping the stack.

UNERASE   The UNERASE command permits recovering accidentally erased files. Recovery must be made before starting any further disk drive activities.

VFILER   VFILER is Z-System screen-oriented file manipulation utility. Permits pointing to files in directory and performing many operations on them: compute sizes, view, print, copy, delete, unsqueeze, or tag (wild cards allowed) for group (mass) processing. Ten macro commands from custom CMD menus, different CMD per directory possible.

VMENU   The VMENU command is used to run the VMENU Subsystem of ZCPR3. VMENU uses *.VMN command files for full menu control of the environment. Portions of a directory are listed at top of the menu screen.

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XD   The XD command is one of the three transient file directory display utilities provided with ZCPR3. It has features between DIR and XDIR.

XDIR   The XDIR command is the most powerful of the three supplied file directory listing programs. Optionally shows all files in all directories, vertically or horizontally sorted by file name or type, to console, printer, or file. Negate wild-card search and directory to file buffer for directory comparisons are unique features.

XIF   Exit (terminate) all pending conditional if's in flow control testing. Useful in ZEX GOTO loops.

ZCPR3 COMMANDS

All programs and utilities provided in the ZCPR3 System are used in conjunction with **Z3-Dot-Com**. The more important ones are briefly described here, but the online HELP facility gives full details on these and all remaining. After the Z3 system is installed put HELP.COM and the HLP files on the current disk and type **HELP ZCPR3** for the full help menu. Immediate syntax help is given by typing **<command> //**, where assist information is appropriate.

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REN   Renaming files is performed with resident REN or with the more powerful transient RENAME.

PWD   The PWD command prints the names of available Working Directories.

SAK   Strike Any Key, used in command lines to suspend execution for a specified time or cancel next operation, alert operator with console bell, cancel, or proceed after delay, if operator not available.

SETFILE   Allows declaring up to four system file names to be used with shell programs, MENU, VMENU, SAK, ALIAS, etc. SHOW indicates system files active.

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VFILER   The VFILER utility is the ZCPR3 screen-oriented file manipulation facility. It allows you to point to a file in your directory and perform a number of operations on it, such as compute its size, view it, print it, copy it, delete it, or tag for group operations.

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XDIR   The XDIR command is the most powerful of the three supplied file directory listing programs.

Z 3 – D O T – C O M   I N S T A L L A T I O N

1. Make a copy of Z3-Dot-Com master disk and put master away.

2. Put a copy of your CP/M system on the working disk using **SYSGEN** supplied with your computer hardware. Place the disk in Drive A. As an alternate way, copy all the ZCPR3 files onto a CP/M disk in Drive A.

3. Type **SUB Z3COM** <cr> and watch installation automatically occur. It takes a little over three minutes. Near the end of installation, the program TCSELECT (terminal capability select) is invoked and you are asked to select your terminal from the menus. After selection, ZCPR3 is up and running. Place **HLP** files where it's convenient to access them.

4. After installation, ZCPR3 is activated simply by typing **Z3** <cr>. ZCPR3 exit command is **Z3X** <cr>.