

# Command Reference (CMD/4OS/2)

- About Command reference
- The Command Line
  - Command-Line Editing
  - Command History and Recall
  - Command History Window
  - Command Names and Parameters
  - Filename Completion
  - Automatic Directory Changes
  - Directory History Window
    - Local and Global Directory History
  - Multiple Commands
  - Expanding and Disabling Aliases
  - Command Line Help
  - Command-Line Length Limits
- File Selection
  - Extended Parent Directory Names
  - Wildcards
  - Ranges
    - Date, Time, and Size Ranges
      - Date Ranges
      - Time Ranges
      - Size Ranges
    - File Exclusion Ranges
  - Multiple Filenames
  - Include Lists
  - Executable Extensions
- Directory Navigation
  - Extended Directory Searches
  - CDPATH
- Other Features
  - Page and File Prompts
  - Redirection and Piping
    - Redirection
    - Piping
  - Using the Keystack
  - Waiting for Applications to Finish
  - Critical Errors
  - Conditional Commands
  - Command Grouping
  - Escape Character
- Internal Commands
  - ? - List the internal commands
  - **ACTIVATE** - Activate a window
  - **ALIAS** - Create or display aliases
  - **ATTRIB** - Change or view file attributes
  - **BEEP** - Beep the speaker
  - **CALL** - Execute one batch file from another
  - **CANCEL** - Terminate batch file processing

- [CD](#) - Change the current directory
- [CDD](#) - Change the current drive and directory
- [CHCP](#) - Change the current code page
- [CLS](#) - Clear the screen
- [COLOR](#) - Change the display colors
- [COPY](#) - Copy files
- [DATE](#) - Change the system date
- [DEL](#) - Delete one or more files
- [DELAY](#) - Pause for a specified length of time
- [DESCRIBE](#) - Create or modify file descriptions
- [DETACH](#) - Start a program in detached mode
- [DIR](#) - Display directories
- [DIRHISTORY](#) - Display, read, or modify the directory history list
- [DIRS](#) - Display the directory stack
- [DO](#) - Create loops in batch files
- [DPATH](#) - Set the data search path
- [DRAWBOX](#) - Draw a box
- [DRAWHLIN](#) - Draw a horizontal line
- [DRAWVLIN](#) - Draw a vertical line
- [ECHO](#) and [ECHOERR](#) - Display a message / set echo state
- [ECHOS](#) and [ECHOSERR](#) - Display a message without CR/LF
- [ENDLOCAL](#) - Restore the saved environment
- [ESET](#) - Edit environment variables and aliases
- [EXCEPT](#) - Exclude files from a command
- [EXIT](#) - Exit CMD.EXE
- [FFIND](#) - Search for files
- [FOR](#) - Repeat a command
- [FREE](#) - Display total and free disk space
- [GLOBAL](#) - Execute a command all subdirectories
- [GOSUB](#) - Execute a subroutine in a batch file
- [GOTO](#) - Branch within a batch file
- [HELP](#) - Display help
- [HISTORY](#) - Manage the history list
- [IF](#) - Execute a command if a condition is true
- [IFF](#) - [IF](#) / [THEN](#) / [ELSE](#) conditional command execution
- [INKEY](#) - Get a character from the keyboard
- [INPUT](#) - Get a string from the keyboard
- [KEYBD](#) - Set the keyboard toggles
- [KEYS](#) - Enable or disable the history list
- [KEYSTACK](#) - Feed keystrokes to a program or command
- [LIST](#) - Display a file
- [LOADBTM](#) - Switch a batch file's mode
- [LOG](#) - Save a log of commands
- [MD](#) - Create a subdirectory
- [MEMORY](#) - Display memory statistics
- [MOVE](#) - Move files
- [ON](#) - Handle Ctrl-Break and errors in batch files
- [OPTION](#) - Modify the command processor configuration
- [PATH](#) - Set the executable file search path
- [PAUSE](#) - Suspend batch file or alias execution
- [POPD](#) - Restore the disk drive and directory

- **PROMPT** - Change the command-line prompt
- **PUSHD** - Save the disk drive and directory
- **QUIT** - Terminate a batch file
- **RD** - Remove subdirectories
- **REBOOT** - Reboot the system
- **REM** - Put a comment in a batch file
- **REN** - Rename files or subdirectories
- **RETURN** - Return from a subroutine in a batch file
- **SCREEN** - Position the cursor and display text
- **SCRPUT** - Display text in color
- **SELECT** - Select files for a command
- **SET** - Create or modify environment variables
- **SETDOS** - Set the CMD.EXE configuration
- **SETLOCAL** - Save the environment
- **SHIFT** - Shift batch file parameters
- **SHRALIAS** - Load or unload SHRALIAS.EXE
- **START** - Start a program in another session
- **SWITCH** - Select commands based on a value
- **TEE** - "Tee" pipe fitting
- **TEXT** - Display text in a batch file
- **TIME** - Set the system time
- **TIMER** - Start or stop a stopwatch
- **TITLE** - Window title
- **TOUCH** - Change date and time stamps
- **TREE** - Directory tree
- **TYPE** - Display file(s)
- **UNALIAS** - Remove aliases
- **UNSET** - Remove environment variables
- **VER** - Display the CMD.EXE and OS/2 version
- **VERIFY** - Enable or disable disk write verification
- **VOL** - Display disk volume labels
- **VSCRPUT** - Display text vertically and in color
- **WINDOW** - Change the window state or title
- **Y** - "Y" pipe fitting
- **External Commands**
- **Aliases**
- **Batch Files**
  - **.BAT, .CMD, and .BTM Files**
  - **Echoing in Batch Files**
  - **Batch File Parameters**
  - **Using Environment Variables**
  - **Batch File Commands**
  - **Interrupting a Batch File**
  - **Automatic Batch Files**
  - **Detecting CMD.EXE**
  - **Using Aliases in Batch Files**
  - **Debugging Batch Files**
  - **Batch File String Processing**
  - **Batch File Line Continuation**
  - **Batch File Compression**
  - **Special Character Compatibility**

- Command Parsing
- Argument Quoting
- REXX Support
- EXTPROC Support
- Environment Variables and Functions
  - CDPATH
  - cmdline
  - COLORDIR
  - COMSPEC
  - FILECOMPLETION
  - PATH
  - PATHEXT
  - PROMPT
  - Internal Variables
    - ?
    - \_?
    - =
    - +
    - \_4VER
    - \_ANSI
    - \_APMAC
    - \_APMBATT
    - \_APMLIFE
    - \_BATCH
    - \_BATCHLINE
    - \_BATCHNAME
    - \_BG
    - \_BOOT
    - \_CI
    - \_CMDPROC
    - \_CO
    - \_CODEPAGE
    - \_COLUMN
    - \_COLUMNS
    - \_COUNTRY
    - \_CPU
    - \_CWD
    - \_CWDS
    - \_CWP
    - \_CWPS
    - \_DATE
    - \_DAY
    - \_DISK
    - \_DNAME
    - \_DOS
    - \_DOSVER
    - \_DOW
    - \_DOWI
    - \_DOY
    - \_FG
    - \_HLOGFILE

- \_HOUR
- \_KBHIT
- \_LASTDISK
- \_LOGFILE
- \_MINUTE
- \_MONITOR
- \_MONTH
- \_MOUSE
- \_NDP
- \_PID
- \_PIPE
- \_PPID
- \_PTYPE
- \_ROW
- \_ROWS
- \_SECOND
- \_SHELL
- \_SID
- \_SYSERR
- \_TIME
- \_TRANSIENT
- \_VIDEO
- \_WINTITLE
- \_XPIXELS
- \_YEAR
- \_YPIXELS
- Variable Functions
  - @ALIAS
  - @ASCII
  - @ATTRIB
  - @CDROM
  - @CHAR
  - @CLIP
  - @COMMA
  - @CONVERT
  - @DATE
  - @DAY
  - @DEC
  - @DESCRIPT
  - @DEVICE
  - @DISKFREE
  - @DISKTOTAL
  - @DISKUSED
  - @DOSMEM
  - @DOW
  - @DOWI
  - @DOY
  - @EAREAD
  - @EAWRITE
  - @EVAL
  - @EXEC

- @EXECSTR
- @EXETYPE
- @EXPAND
- @EXT
- @FILEAGE
- @FILECLOSE
- @FILEDATE
- @FILENAME
- @FILEOPEN
- @FILEREAD
- @FILES
- @FILESEEK
- @FILESEEKL
- @FILESIZE
- @FILETIME
- @FILEWRITE
- @FILEWRITEB
- @FINDCLOSE
- @FINDFIRST
- @FINDNEXT
- @FORMAT
- @FSTYPE
- @FULL
- @IF
- @INC
- @INDEX
- @INSERT
- @INSTR
- @INT
- @LABEL
- @LEFT
- @LEN
- @LINE
- @LINES
- @LOWER
- @MAKEAGE
- @MAKEDATE
- @MAKETIME
- @MONTH
- @NAME
- @NUMERIC
- @PATH
- @RANDOM
- @READSCR
- @READY
- @REMOTE
- @REMOVABLE
- @REPEAT
- @REPLACE
- @REXX
- @RIGHT

- @SEARCH
- @SELECT
- @STRIP
- @SUBSTR
- @TIME
- @TIMER
- @TRIM
- @UNIQUE
- @UPPER
- @WILD
- @WORD
- @WORDS
- @YEAR
- CMD.INI
  - Modifying the .INI File
  - Using the .INI File
  - .INI File Sections
  - .INI File Directives
    - Initialization Directives
      - 4StartPath
      - DirHistory (directive)
      - DuplicateBugs
      - HelpBook
      - History (directive)
      - INIQuery
      - LocalAliases
      - LocalDirHistory
      - LocalHistory
      - PauseOnError
      - SwapFilePath
      - TreePath
      - WindowState
      - WindowX, WindowY, WindowWidth, WindowHeight
    - Configuration Directives
      - AmPm
      - AppendToDir
      - BatchEcho
      - BeepFreq
      - BeepLength
      - CDDWinLeft, CDDWinTop, CDDWinWidth, CDDWinHeight
      - CommandSep
      - CursorIns
      - CursorOver
      - DecimalChar
      - DescriptionMax
      - DescriptionName
      - Descriptions
      - EditMode
      - EscapeChar
      - EvalMax
      - EvalMin

- ExecWait
- FileCompletion
- FuzzyCD
- HistCopy
- HistLogName
- HistMin
- HistMove
- HistWrap
- LineInput
- ListRowStart
- LogName
- NoClobber
- ParameterChar
- PathExt
- PopupWinLeft, PopupWinTop, PopupWinWidth, PopupWinHeight
- Printer
- ScreenRows
- TabStops
- ThousandsChar
- UnixPaths
- UpperCase
- Color Directives
  - BrightBG
  - CDDWinColors
  - ColorDir
  - InputColors
  - ListboxBarColors
  - ListColors
  - ListStatBarColors
  - PopupWinColors
  - SelectColors
  - SelectStatBarColors
  - StdColors
- Key Mapping Directives
  - General Input Keys
    - Backspace
    - BeginLine
    - Del
    - DelToBeginning
    - DelToEnd
    - DelWordLeft
    - DelWordRight
    - Down
    - EndLine
    - EraseLine
    - ExecLine
    - Ins
    - Left
    - NormalKey
    - Right
    - Up

- WordLeft
  - WordRight
  - Command-Line Editing Keys
    - AddFile
    - AliasExpand
    - CommandEscape
    - DelHistory
    - EndHistory
    - Help
    - LineToEnd
    - NextFile
    - NextHistory
    - NormalEditKey
    - PopFile
    - PrevFile
    - PrevHistory
    - SaveHistory
  - Popup Window Keys
    - DirWinOpen
    - HistWinOpen
    - NormalPopupKey
    - PopupWinBegin
    - PopupWinDel
    - PopupWinEdit
    - PopupWinEnd
    - PopupWinExec
  - LIST Keys
    - ListExit
    - ListFind
    - ListFindReverse
    - ListHex
    - ListHighBit
    - ListInfo
    - ListNext
    - ListPrevious
    - ListPrint
    - ListWrap
    - NormalListKey
  - Advanced Directives
    - ClearKeyMap
    - Debug
    - Include
    - NextINIFile
  - .INI File Examples
- Setup and Troubleshooting
  - Starting CMD.EXE
  - The CMD.EXE Help System
  - Error Messages
  - Troubleshooting, Service, and Support
    - Technical Support
    - Contacting JP Software

- [What's New?](#)
  - [General Features and Enhancements](#)
  - [Command Line Editing](#)
    - [Command Changes](#)
    - [Variables and Functions](#)
    - [Startup and Configuration](#)
    - [Technical and Compatibility Enhancements](#)
    - [Bugs Fixed](#)
- [Reference Information](#)
  - [File Systems and File Name Conventions](#)
    - [Drives and Volumes](#)
    - [File Systems](#)
    - [Directories and Subdirectories](#)
    - [File Names](#)
    - [File Attributes and Time Stamps](#)
  - [Miscellaneous Reference Information](#)
    - [Colors and Color Names](#)
    - [Keys and Key Names](#)
    - [Popup Windows](#)
    - [Executable Files and File Searches](#)
  - [Reference Tables](#)
    - [ASCII Table](#)
    - [Key Codes and Scan Codes Table](#)
    - [Key Codes and Scan Codes Explanation](#)
    - [ANSI Codes](#)
  - [Glossary](#)
    - [Glossary - 4](#)
    - [Glossary - A](#)
    - [Glossary - B](#)
    - [Glossary - C](#)
    - [Glossary - D](#)
    - [Glossary - E](#)
    - [Glossary - F](#)
    - [Glossary - G](#)
    - [Glossary - H](#)
    - [Glossary - I](#)
    - [Glossary - K](#)
    - [Glossary - L](#)
    - [Glossary - M](#)
    - [Glossary - N](#)
    - [Glossary - O](#)
    - [Glossary - P](#)
    - [Glossary - R](#)
    - [Glossary - S](#)
    - [Glossary - T](#)
    - [Glossary - U](#)
    - [Glossary - V](#)
    - [Glossary - W](#)
    - [Glossary - X](#)

- Created using Inf-PHP v.1 © 2003 [Yuri Prokushev](#)

- Created using Inf-HTML v.0.9b © 1995 [Peter Childs](#)

From:

<https://osfree.org/doku/> - **osFree wiki**

Permanent link:

<https://osfree.org/doku/doku.php?id=en:docs:cmd:index&rev=1400976117>

Last update: **2014/05/25 00:01**

