

Unix Shells By Example 4th Edition

Cd (command)

operating system shells, most support a change directory command, including Unix and Unix-like (i.e. Linux) shells, and Microsoft shells including Command

cd is a shell command that changes the working directory. It is available in many shells and other applications that maintain a working directory. In some contexts, the command can perform actions other than change directory. Some environments provide the change directory feature via a different command name such as chdir.

Rc (Unix shell)

Version 10 Unix and Plan 9 from Bell Labs operating systems. It resembles the Bourne shell, but its syntax is somewhat simpler. It was created by Tom Duff

rc (for "run commands") is the command-line interpreter for Version 10 Unix and Plan 9 from Bell Labs operating systems. It resembles the Bourne shell, but its syntax is somewhat simpler. It was created by Tom Duff, who is better known for an unusual C programming language construct ("Duff's device").

A port of the original rc to Unix is part of Plan 9 from User Space. A rewrite of rc for Unix-like operating systems by Byron Rakitzis is also available but includes some incompatible changes.

Rc uses C-like control structures instead of the original Bourne shell's ALGOL-like structures, except that it uses an if not construct instead of else, and has a Bourne-like for loop to iterate over lists. In rc, all variables are lists of strings, which eliminates the need for constructs like "\$@". Variables...

PWB shell

7 Unix (1979), the PWB shell was superseded by the Bourne shell. Several features were introduced in the PWB shell that remain in many later shells. The

The PWB shell (also known as the Mashey shell) was a Unix shell.

Dd (Unix)

dd is a shell command for reading, writing and converting file data. Originally developed for Unix, it has been implemented on many other environments

dd is a shell command for reading, writing and converting file data. Originally developed for Unix, it has been implemented on many other environments including Unix-like operating systems, Windows, Plan 9 and Inferno.

The command can be used for many purposes. For relatively simple copying operations, it tends to be slower than domain-specific alternatives, but it excels at overwriting or truncating a file at any point or seeking in a file.

The command supports reading and writing files, and if a driver is available to support file-like access, the command can access devices too. Such access is typically supported on Unix-based systems that provide file-like access to devices (such as storage) and special device files (such as /dev/zero and /dev/random). Therefore, the command can be used...

Shebang (Unix)

(present at 2.8BSD and activated by default by 4.2BSD). As AT&T Bell Laboratories Edition 8 Unix, and later editions, were not released to the public

In computing, a shebang is the character sequence `#!`, consisting of the characters number sign (also known as sharp or hash) and exclamation mark (also known as bang), at the beginning of a script. It is also called sharp-exclamation, sha-bang, hashbang, pound-bang, or hash-pling.

When a text file with a shebang is used as if it were an executable in a Unix-like operating system, the program loader mechanism parses the rest of the file's initial line as an interpreter directive. The loader executes the specified interpreter program, passing to it as an argument the path that was initially used when attempting to run the script, so that the program

may use the file as input data. For example, if a script is named with the path `path/to/script`, and it starts with the line `#!/bin/sh`, then the...

Echo (command)

Edition Unix) is preferred instead. The command is available the following shells or at least one shell of a listed operating system: Unix and Unix-like

echo is shell command that writes input text to standard output. It is available in many operating system and shells. It is often used in a shell script to log status, provide feedback to the user and for debugging. For an interactive session, output by default displays on the terminal screen, but output can be re-directed to a file or piped to another process.

Many shells implement echo as a builtin command rather than an external application as are many other commands.

Multiple, incompatible implementations of echo exist in different shells. Some expand escape sequences by default; some do not; some accept options; some do not. The POSIX specification leaves the behavior unspecified if the first argument is `-n` or any argument contains backslash characters while the Unix specification (XSI...

Cron

time. The command is generally available on Unix-like operating systems. The actions of cron are driven by a crontab (cron table) file. The crontab files

cron is a shell command for scheduling a job (i.e. command or shell script) to run periodically at a fixed time, date, or interval. As scheduled, it is known as a cron job, Although typically used to automate system maintenance and administration it can be used to automate any task. cron is most suitable for scheduling repetitive tasks as scheduling a one-time task can be accomplished via `at`.

The command name originates from Chronos, the Greek word for time.

The command is generally available on Unix-like operating systems.

TIME (command)

operating systems as well as in the EFI shell. On MS-DOS, the command is available in versions 1 and later. In Unix, the date command displays and sets both

In computing, TIME is a command in DEC RT-11, DOS, IBM OS/2, Microsoft Windows and a number of other operating systems that is used to display and set the current system time. It is included in command-line interpreters (shells) such as COMMAND.COM, cmd.exe, 4DOS, 4OS2 and 4NT.

Process identifier

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In computing, the process identifier (a.k.a. process ID or PID) is a number used by most operating system kernels—such as those of Unix, macOS and Windows—to uniquely identify an active process. This number may be used as a parameter in various function calls, allowing processes to be manipulated, such as adjusting the process's priority or killing it altogether.

AWK

Version 7 Unix, AWK added computational features to a Unix pipeline besides the Bourne shell, the only scripting language available in a standard Unix environment

AWK () is a scripting language designed for text processing and typically used as a data extraction and reporting tool. Like sed and grep, it is a filter, and it is a standard feature of most Unix-like operating systems.

The AWK language is a data-driven scripting language consisting of a set of actions to be taken against streams of textual data – either run directly on files or used as part of a pipeline – for purposes of extracting or transforming text, such as producing formatted reports. The language extensively uses the string datatype, associative arrays (that is, arrays indexed by key strings), and regular expressions. While AWK has a limited intended application domain and was especially designed to support one-liner programs, the language is Turing-complete, and even the early Bell...

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