


The set builtin command

 incomplete - text, examples, maybe extended description

Synopsis

```
set [--abefhkmnptuvxBCHP] [-o OPTIONNAME] [-][--] <POSPARAMS>
```

Description

`set` is primarily made to

- set the positional parameters (see [handling positional parameters](#)) to `<POSPARAMS>`
- set shell attributes with short options (see below)
- set shell attributes with long option names (see below)

Without any options, `set` displays all shell- and environment-variables (only in POSIX-mode) in a re-usable format `NAME=VALUE`.

Attributes

All attributes below can be switched on using `-X` and switched off using `+X`. This is done because of the historical meaning of the `-` to set flags (true for most commands on UNIX®).

Flag	Optionname	Description
-a	allexport	Automatically mark new and altered variables to be exported to subsequent environments.
-b	notify	Don't wait for the next prompt to print when showing the reports for a terminated background job (only with job control)
-e	errexit	When set, the shell exits when a simple command in a command list exits non-zero (FALSE). This is not done in situations, where the exit code is already checked (<code>if</code> , <code>while</code> , <code>until</code> , <code> </code> , <code>&&</code>)
-f	noglob	Disable pathname expansion (globbing)
-h	hashall	Remembers the location of commands when they're called (hashing). Enabled by default.
-k	keyword	Allows to place environment-assignments everywhere in the commandline, not only in front of the called command.
-m	monitor	Monitor mode. With job control, a short descriptive line is printed when a background job ends. Default is "on" for interactive shells (with job control).
-n	noexec	Read and parse but do not execute commands - useful for checking scripts for syntax errors. Ignored by interactive shells.
-o		Set/unset attributes with long option names, e.g. <code>set -o noglob</code> . The long option names are in the second column of this table. If no option name is given, all options are printed with their current status.
-p	privileged	Turn on privileged mode.
-t	onecmd	Exit after reading and executing one command.
-u	nounset	Treat unset variables as an error when performing parameter expansion. Non-interactive shells exit on this error.
-v	verbose	Print shell input lines as they are read - useful for debugging.
-x	xtrace	Print commands just before execution - with all expansions and substitutions done, and words marked - useful for debugging.
		The shell performs brace expansion This is on by default.

-B	braceexpand	
-C	noclobber	Don't overwrite files on redirection operations. You can override that by specifying the > redirection operator when needed. See redirection
-E	errtrace	ERR-traps are inherited by by shell functions, command substitutions, and commands executed in a subshell environment.
-H	histexpand	Enable !-style history expansion. Defaults to ON for interactive shells.
-P	physical	Don't follow symlinks when changing directories - use the physical filesystem structure.
-T	functrace	DEBUG- and RETURN-traps are inherited by subsequent environments, like -E for ERR trap.
-		"End of options" - all following arguments are assigned to the positional parameters, even when they begin with a dash. -X and -v options are turned off. Positional parameters are unchanged (unlike using --!) when no further arguments are given.
--		If no arguments follow, the positional parameters are unset. With arguments, the positional parameters are set, even if the strings begin with a - (dash) like an option.
Long options usable with -o without a short equivalent		
	emacs	Use an emacs-style command line editing interface. This is enabled by default when the shell is interactive, unless the shell is started with <code>--noediting</code> option.
	history	If set, command historization is done (enabled by default on interactive shells)
	ignoreeof	The effect is as if the shell command <code>IGNOREEOF=10</code> had been executed. See shell variables .
	nolog	(currently ignored)
	pipefail	If set, the exit code from a pipeline is different from the normal ("last command in pipeline") behaviour: TRUE when no command failed, FALSE when something failed (code of the rightmost command that failed)
	posix	When set, Bash runs in POSIX mode.
	vi	Enables a vi-style command line editing interface.

Examples

Tag a part of a shell script to output debugging information (-X):

```
#!/bin/bash
...
set -x # on
...
set +x # off
...
```

Portability considerations

set and its basic behaviour and options are specified by POSIX®. However, options that influence Bash-specific things are not portable, naturally.

See also

- Internal: [The shopt builtin command](#)

Discussion