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[[commands:builtin:kill]]

The kill builtin command

Synopsis

```
kill [-s SIGNAL | -n SIGNALNUMBER | -SIGNAL] PID|JOB
```

kill -l|-L [SIGNAL...]

Description

The kill command is used to send signals to processes specified by their PID or their JOB -specification.

The signal(s) to be specified can have the following formats:

- Numerical: The signal is specified using its constant numeric value. Be aware that not all systems have identical numbers for the signals.
- Symbolic (long): The signal is specified using the same name that is used for the constant/macro in the C API () (SIG<name>)
- Symbolic (short): The signal is specified using the name from the C <u>API ()</u> without the SIG -prefix (<name>)

Without any specified signal, the command sends the SIGTERM -signal.

The kill command is a Bash builtin command instead of relying on the external kill command of the operating system to

- · be able to use shell job specifications instead of Unix process IDs
- be able to send signals ("kill something") also, when your process limit is reached

Options

Option	Description
-s SIGNAL	specifies the signal to send
-n SIGNALNUMBER	specifies the signal to send
-SIGNAL	specifies the signal to send

Option	Description
-l [SIGNAL]	Lists supported/known signal numbers and their symbolic name. If SIGNAL is given, only list this signal, translated (if a number is given the symbolic name is printed, and vice versa)
-L [SIGNAL]	Same as -1 [SIGNAL] (compatiblity option)

Return status

Status	Reason
0	no error/success
!=0	invalid option
!=0	invalid signal specification
!=0	error returned by the system function (e.g. insufficient permissions to send to a specific process)

Examples

List supported signals

kill -l

Send KILL to a process ID

kill -9 12345

kill -KILL 12345

kill -SIGKILL 12345

Portability considerations

 POSIX(R) and ISO C only standardize symbolic signal names (no numbers) and a default action

See also

