NAME

hash, rehash, unhash, hashstat – evaluate the internal hash table of the contents of directories

SYNOPSIS

/usr/bin/hash [*utility*]
/usr/bin/hash [– **r**]

sh

hash [– **r**] [*name* . . .]

csh

rehash
unhash
hashstat

ksh

hash [*name* . . .]

DESCRIPTION

/usr/bin/hash

The **/usr/bin/hash** utility affects the way the current shell environment remembers the locations of utilities found. Depending on the arguments specified, it adds utility locations to its list of remembered locations or it purges the contents of the list. When no arguments are specified, it reports on the contents of the list.

Utilities provided as built-ins to the shell are not reported by **hash**.

sh

For each *name* , the location in the search path of the command specified by *name* is determined and remembered by the shell. The –**r** option to the **hash** built-in causes the shell to forget all remembered locations. If no arguments are given, **hash** provides information about remembered commands. The *Hits* column of output is the number of times a command has been invoked by the shell process. The *Cost* column of output is a measure of the work required to locate a command in the search path. If a command is found in a "relative" directory in the search path, after changing to that directory, the stored location of that command is recalculated. Commands for which this will be done are indicated by an asterisk (*) adjacent to the *Hits* information. *Cost* will be incremented when the recalculation is done.

csh

rehash recomputes the internal hash table of the contents of directories listed in the **path** environmental variable to account for new commands added.

unhash disables the internal hash table.

hashstat prints a statistics line indicating how effective the internal hash table has been at locating commands (and avoiding **exec**s). An **exec** is attempted for each component of the *path* where the hash function indicates a possible hit and in each component that does not begin with a ’ / ’.

ksh

For each *name*, the location in the search path of the command specified by *name* is determined and remembered by the shell. If no arguments are given, **hash** provides information about remembered commands.

OPERANDS

The following operand is supported by **hash**:

utility The name of a utility to be searched for and added to the list of remembered locations.

OUTPUT

The standard output of **hash** is used when no arguments are specified. Its format is unspecified, but includes the pathname of each utility in the list of remembered locations for the current shell environment. This list consists of those utilities named in previous **hash** invocations that have been invoked, and may contain those invoked and found through the normal command search process.

ENVIRONMENT

See **environ**(5) for descriptions of the following environment variables that affect the execution of **hash**: **LC_CTYPE**, **LC_MESSAGES**, and **NLSPATH**.

PATH Determine the location of *utility*.

EXIT STATUS

The following exit values are returned by **hash**:

0 Successful completion.

>0 An error occurred.

SEE ALSO

csh(1), **ksh**(1), **sh**(1), **environ**(5)