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Rocky Enterprise Linux 9.2 Manual Pages on command 'environ.7'

\$ man environ.7

ENVIRON(7) Linux Programmer's Manual ENVIRON(7)

NAME

environ - user environment

SYNOPSIS

extern char **environ;

DESCRIPTION

The variable `environ` points to an array of pointers to strings called the "environment".

The last pointer in this array has the value `NULL`. (This variable must be declared in the user program, but is declared in the header file `<unistd.h>` if the `_GNU_SOURCE` feature test macro is defined.) This array of strings is made available to the process by the `exec(3)` call that started the process. When a child process is created via `fork(2)`, it inherits a copy of its parent's environment.

By convention the strings in `environ` have the form "name=value". Common examples are:

`USER` The name of the logged-in user (used by some BSD-derived programs).

`LOGNAME`

The name of the logged-in user (used by some System-V derived programs).

`HOME` A user's login directory, set by `login(1)` from the password file `passwd(5)`.

`LANG` The name of a locale to use for locale categories when not overridden by `LC_ALL` or more specific environment variables such as `LC_COLLATE`, `LC_CTYPE`, `LC_MESSAGES`, `LC_MONETARY`, `LC_NUMERIC`, and `LC_TIME` (see `locale(7)` for further details of the `LC_*` environment variables).

`PATH` The sequence of directory prefixes that `sh(1)` and many other programs apply in searching for a file known by an incomplete pathname. The prefixes are separated

by ':'. (Similarly one has CDPATH used by some shells to find the target of a change directory command, MANPATH used by man(1) to find manual pages, and so on)

PWD The current working directory. Set by some shells.

SHELL The pathname of the user's login shell.

TERM The terminal type for which output is to be prepared.

PAGER The user's preferred utility to display text files.

EDITOR/VISUAL

The user's preferred utility to edit text files.

Names may be placed in the shell's environment by the export command in sh(1), or by the setenv command if you use csh(1).

The initial environment of the shell is populated in various ways, such as definitions from /etc/environment that are processed by pam_env(8) for all users at login time (on systems that employ pam(8)). In addition, various shell initialization scripts, such as the system-wide /etc/profile script and per-user initializations script may include commands that add variables to the shell's environment; see the manual page of your preferred shell for details.

Bourne-style shells support the syntax

NAME=value command

to create an environment variable definition only in the scope of the process that executes command. Multiple variable definitions, separated by white space, may precede command.

Arguments may also be placed in the environment at the point of an exec(3). A C program can manipulate its environment using the functions getenv(3), putenv(3), setenv(3), and unsetenv(3).

Note that the behavior of many programs and library routines is influenced by the presence or value of certain environment variables. Examples include the following:

- * The variables LANG, LANGUAGE, NLSPATH, LOCPATH, LC_ALL, LC_MESSAGES, and so on influence locale handling; see catopen(3), gettext(3), and locale(7).
- * TMPDIR influences the path prefix of names created by tempnam(3) and other routines, and the temporary directory used by sort(1) and other programs.
- * LD_LIBRARY_PATH, LD_PRELOAD, and other LD_* variables influence the behavior of the dynamic loader/linker.
- * POSIXLY_CORRECT makes certain programs and library routines follow the prescriptions of

POSIX.

- * The behavior of `malloc(3)` is influenced by `MALLOC_*` variables.
- * The variable `HOSTALIASES` gives the name of a file containing aliases to be used with `gethostbyname(3)`.
- * `TZ` and `TZDIR` give timezone information used by `tzset(3)` and through that by functions like `ctime(3)`, `localtime(3)`, `mktime(3)`, `strptime(3)`. See also `tzselect(8)`.
- * `TERMCAP` gives information on how to address a given terminal (or gives the name of a file containing such information).
- * `COLUMNS` and `LINES` tell applications about the window size, possibly overriding the actual size.
- * `PRINTER` or `LPDEST` may specify the desired printer to use. See `lpr(1)`.

NOTES

The `prctl(2)` `PR_SET_MM_ENV_START` and `PR_SET_MM_ENV_END` operations can be used to control the location of the process's environment.

BUGS

Clearly there is a security risk here. Many a system command has been tricked into mischief by a user who specified unusual values for `IFS` or `LD_LIBRARY_PATH`.

There is also the risk of name space pollution. Programs like `make` and `autoconf` allow overriding of default utility names from the environment with similarly named variables in all caps. Thus one uses `CC` to select the desired C compiler (and similarly `MAKE`, `AR`, `AS`, `FC`, `LD`, `LEX`, `RM`, `YACC`, etc.). However, in some traditional uses such an environment variable gives options for the program instead of a pathname. Thus, one has `MORE`, `LESS`, and `GZIP`. Such usage is considered mistaken, and to be avoided in new programs. The authors of `gzip` should consider renaming their option to `GZIP_OPT`.

SEE ALSO

`bash(1)`, `csh(1)`, `env(1)`, `login(1)`, `printenv(1)`, `sh(1)`, `tcsh(1)`, `execve(2)`, `clearenv(3)`, `exec(3)`, `getenv(3)`, `putenv(3)`, `setenv(3)`, `unsetenv(3)`, `locale(7)`, `ld.so(8)`, `pam_env(8)`

COLOPHON

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