NAME
>   gethostname, sethostname - get/set hostname

SYNOPSIS
>   **#include <unistd.h>**
>
>   **int gethostname(char ****name**, size_t** len**);**
>   **int sethostname(const char ****name**, size_t** len**);**

>   Feature Test Macro Requirements for glibc (see feature_test_macros(7)):

>   **gethostname**():
>   Since glibc 2.12: _BSD_SOURCE || _XOPEN_SOURCE >= 500
> || /* Since glibc 2.12: */ _POSIX_C_SOURCE >= 200112L
>   **sethostname**():
>   Since glibc 2.21:
>   _DEFAULT_SOURCE
>   In glibc 2.19 and 2.20:
>   _DEFAULT_SOURCE || (_XOPEN_SOURCE && _XOPEN_SOURCE < 500)
>   Up to and including glibc 2.19:
>   _BSD_SOURCE || (_XOPEN_SOURCE && _XOPEN_SOURCE < 500)

DESCRIPTION
>   These system calls are used to access or to change the hostname of the current processor.
>
>   **sethostname**() sets the hostname to the value given in the character array *name*. The *len* argument speci-
>   fies the number of bytes in *name*. (Thus, *name* does not require a terminating null byte.)
>
>   **gethostname**() returns the null-terminated hostname in the character array *name*, which has a length of *len*
>   bytes. If the null-terminated hostname is too large to fit, then the name is truncated, and no error is returned
>   (but see NOTES below). POSIX.1 says that if such truncation occurs, then it is unspecified whether the
>   returned buffer includes a terminating null byte.

RETURN VALUE
>   On success, zero is returned. On error, -1 is returned, and *errno* is set appropriately.

ERRORS
>   **EFAULT**
>   *name* is an invalid address.
>
>   **EINVAL**
>   *len* is negative or, for **sethostname**(), *len* is larger than the maximum allowed size.
>
>   **ENAMETOOLONG**
>   (glibc **gethostname**()) *len* is smaller than the actual size. (Before version 2.1, glibc uses **EINVAL**
>   for this case.)
>
>   **EPERM**
>   For **sethostname**(), the caller did not have the **CAP_SYS_ADMIN** capability in the user names-
>   pace associated with its UTS namespace (see namespaces(7)).

CONFORMING TO
>   SVr4, 4.4BSD (these interfaces first appeared in 4.2BSD). POSIX.1-2001 and POSIX.1-2008 specify
>   **gethostname**() but not **sethostname**().

NOTES
>   SUSv2 guarantees that "Host names are limited to 255 bytes". POSIX.1 guarantees that "Host names (not
>   including the terminating null byte) are limited to **HOST_NAME_MAX** bytes". On Linux,
>   **HOST_NAME_MAX** is defined with the value 64, which has been the limit since Linux 1.0 (earlier ker-
>   nels imposed a limit of 8 bytes).

C library/kernel differences

The GNU C library does not employ the **gethostname**() system call; instead, it implements **gethostname**() as a library function that calls uname(2) and copies up to *len* bytes from the returned *nodename* field into *name*. Having performed the copy, the function then checks if the length of the *nodename* was greater than or equal to *len*, and if it is, then the function returns -1 with *errno* set to **ENAMETOOLONG**; in this case, a terminating null byte is not included in the returned *name*.

Versions of glibc before 2.2 handle the case where the length of the *nodename* was greater than or equal to *len* differently: nothing is copied into *name* and the function returns -1 with *errno* set to **ENAMETOO-LONG**.

SEE ALSO

hostname(1), getdomainname(2), setdomainname(2), uname(2)

COLOPHON

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