NAME

realhostname - convert an IP number to the real host name

LIBRARY

System Utilities Library (libutil, -lutil)

SYNOPSIS

#include <libutil.h>

int
realhostname(*char *host*, *size_t hsize*, *const struct in_addr *ip*);

DESCRIPTION

The function **realhostname**() converts *ip* to the corresponding host name. This is done by resolving *ip* to a host name and then ensuring that the host name resolves back to *ip*.

host must point to a buffer of at least *hsize* bytes, and will always be written to by this function.

If the name resolution does not work both ways or if the host name is longer than *hsize* bytes, inet_ntoa(3) is used to convert *ip* to an ASCII form.

If the string written to *host* is *hsize* bytes long, *host* will not be NUL terminated.

RETURN VALUES

The **realhostname**() function will return one of the following constants which are defined in *<libutil.h>*:

HOSTNAME_FOUND
    A valid host name was found.

HOSTNAME_INCORRECTNAME
    A host name was found, but it did not resolve back to the passed *ip*. *host* now contains the numeric value of *ip*.

HOSTNAME_INVALIDADDR
    ip could not be resolved. *host* now contains the numeric value of *ip*.

HOSTNAME_INVALIDNAME
    A host name was found, but it could not be resolved back to any ip number. *host* now contains the numeric value of *ip*.

SEE ALSO

gethostbyaddr(3), gethostbyname(3), inet_ntoa(3), realhostname_sa(3)

HISTORY

The **realhostname**() function first appeared in FreeBSD 3.2.