

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.