NAME

gai_strerror - get error message string from EAI_xxx error code

SYNOPSIS

#include <sys/types.h>
#include <sys/socket.h>
#include <netdb.h>

const char *
gai_strerror(*int ecode*);

DESCRIPTION

The **gai_strerror**() function returns an error message string corresponding to the error code returned by getaddrinfo(3) or getnameinfo(3).

The following error codes and their meaning are defined in *<netdb.h>*:

EAI_ADDRFAMILY	Address family for hostname not supported
EAI_AGAIN	Name could not be resolved at this time
EAI_BADFLAGS	flags parameter had an invalid value
EAI_BADHINTS	invalid value for *hints*
EAI_FAIL	Non-recoverable failure in name resolution
EAI_FAMILY	Address family was not recognized
EAI_MEMORY	Memory allocation failure
EAI_NODATA	No address associated with hostname
EAI_NONAME	Name does not resolve
EAI_OVERFLOW	argument buffer overflow
EAI_PROTOCOL	Resolved protocol is unknown
EAI_SERVICE	Service was not recognized for socket type
EAI_SOCKTYPE	Intended socket type was not recognized
EAI_SYSTEM	System error returned in *errno*

RETURN VALUES

The **gai_strerror**() function returns a pointer to the error message string corresponding to *ecode*. If *ecode* is out of range, an implementation-specific error message string is returned.

SEE ALSO

getaddrinfo(3), getnameinfo(3)

STANDARDS

RFC 3493 Basic Socket Interface Extensions for IPv6

EAI_ADDRFAMILY and EAI_NODATA were in previous RFCs, but not in RFC 3493. They are not in POSIX (IEEE Std 1003.1-2017). They were in FreeBSD before 5.2, and were re-added for 14.0. EAI_BADHINTS, EAI_OVERFLOW, and EAI_PROTOCOL are not in RFC 3493 or POSIX.