Red Hat Enterprise Linux Release 9.2 Manual Pages on 'inet_ntop.3' command

$ man inet_ntop.3

INET_NTOP(3)   Linux Programmer's Manual   INET_NTOP(3)

NAME

    inet_ntop - convert IPv4 and IPv6 addresses from binary to text form

SYNOPSIS

    #include <arpa/inet.h>

    const char *inet_ntop(int af, const void *src,

            char *dst, socklen_t size);

DESCRIPTION

    This function converts the network address structure src in the af ad‐

    dress family into a character string. The resulting string is copied

    to the buffer pointed to by dst, which must be a non-null pointer. The

    caller specifies the number of bytes available in this buffer in the

    argument size.

    inet_ntop() extends the inet_ntoa(3) function to support multiple ad‐

    dress families, inet_ntoa(3) is now considered to be deprecated in fa‐

    vor of inet_ntop(). The following address families are currently sup‐

    ported:

    AF_INET

        src points to a struct in_addr (in network byte order) which is

        converted to an IPv4 network address in the dotted-decimal for‐

        mat, "ddd.ddd.ddd.ddd". The buffer dst must be at least

        INET_ADDRSTRLEN bytes long.

    AF_INET6

src points to a struct in6_addr (in network byte order) which is
converted to a representation of this address in the most appro‐
priate IPv6 network address format for this address. The buffer
dst must be at least INET6_ADDRSTRLEN bytes long.

RETURN VALUE

On success, inet_ntop() returns a non-null pointer to dst. NULL is re‐
turned if there was an error, with errno set to indicate the error.

ERRORS

EAFNOSUPPORT
     af was not a valid address family.

ENOSPC The converted address string would exceed the size given by
     size.

ATTRIBUTES

For an explanation of the terms used in this section, see at‐
tributes(7).

???
?Interface   ? Attribute   ? Value   ?
???
?inet_ntop() ? Thread safety ? MT-Safe locale ?
???

CONFORMING TO

POSIX.1-2001, POSIX.1-2008.   Note that RFC 2553 defines a prototype
where the last argument size is of type size_t.   Many systems follow
RFC 2553. Glibc 2.0 and 2.1 have size_t, but 2.2 and later have
socklen_t.

BUGS

AF_INET6 converts IPv4-mapped IPv6 addresses into an IPv6 format.

EXAMPLES

See inet_pton(3).

SEE ALSO

getnameinfo(3), inet(3), inet_pton(3)

COLOPHON

This page is part of release 5.10 of the Linux man-pages project.   A

description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-pages/.