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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'inet\_ntop.3'***

***\$ 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` address 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 address families, `inet_ntoa(3)` is now considered to be deprecated in favor of `inet_ntop()`. The following address families are currently supported:

#### 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 format, "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 appropriate 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 returned 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 `attributes(7)`.

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?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/>.