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The Open Group Base Specifications Issue 7, 2018 edition IEEE Std 1003.1-2017 (Revision of IEEE Std 1003.1-2008) Copyright © 2001-2018 IEEE and The Open Group

#### NAME

arpa/inet.h - definitions for internet operations

#### **SYNOPSIS**

#include <arpa/inet.h>

## **DESCRIPTION**

The <arpa/inet.h> header shall define the in\_port\_t and in\_addr\_t types as described in <a href="mailto:<netinet/in.h>">.</a>.

The <arpa/inet.h> header shall define the in\_addr structure as described in <a href="mailto:<netinet/in.h">...</a>.

The  $\langle arpa/inet.h \rangle$  header shall define the INET\_ADDRSTRLEN [IP6]  $\boxtimes$  and INET6\_ADDRSTRLEN  $\boxtimes$  macros as described in  $\langle netinet/in.h \rangle$ .

The following shall be declared as functions, or defined as macros, or both. If functions are declared, function prototypes shall be provided.

```
uint32_t hton1(uint32_t);
uint16_t htons(uint16_t);
uint32_t ntoh1(uint32_t);
uint16_t ntohs(uint16_t);
```

The <arpa/inet.h> header shall define the uint32\_t and uint16\_t types as described in <inttypes.h>.

The following shall be declared as functions and may also be defined as macros. Function prototypes shall be provided.

Inclusion of the <arpa/inet.h> header may also make visible all symbols from <a href="mailto:<a href="mailto:net/in.h"><a href="mailto:net/in.h"><a

The following sections are informative.

#### APPLICATION USAGE

None.

# **RATIONALE**

None.

05.05.2022, 15:35 <arpa/inet.h>

# **FUTURE DIRECTIONS**

None.

### SEE ALSO

<inttypes.h>, <netinet/in.h>
XSH htonl, inet addr, inet ntop

### **CHANGE HISTORY**

First released in Issue 6. Derived from the XNS, Issue 5.2 specification.

The **restrict** keyword is added to the prototypes for <u>inet ntop()</u> and <u>inet pton()</u>.

# Issue 7

SD5-XBD-ERN-6 is applied.

End of informative text.

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