`arpa_inet.h` - Man Page

definitions for internet operations

Prolog

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

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 *<netinet/in.h>*.

The *<arpa/inet.h>* header shall define the **in_addr** structure as described in *<netinet/in.h>*.

The *<arpa/inet.h>* header shall define the INET_ADDRSTRLEN and INET6_ADDRSTRLEN macros as described in *<netinet/in.h>*.

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

```
uint32_t htonl(uint32_t);
uint16_t htons(uint16_t);
uint32_t ntohl(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.

```
in_addr_t    inet_addr(const char *);
char        *inet_ntoa(struct in_addr);
const char  *inet_ntop(int, const void *restrict, char *restrict,
                 socklen_t);
int          inet_pton(int, const char *restrict, void *restrict);
```

Inclusion of the *<arpa/inet.h>* header may also make visible all symbols from *<netinet/in.h>* and *<inttypes.h>*.

The following sections are informative.

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None.

Rationale

None.

Future Directions

None.

See Also

<inttypes.h>, <netinet_in.h>

The System Interfaces volume of POSIX.1-2017, htonl(), inet_addr(), inet_ntop()

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Referenced By

htonl(3p), inet_addr(3p), inet_ntop(3p), netinet_in.h(0p).

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