NAME

ether_aton, ether_ntoa, ether_ntohost, ether_hostton, ether_line, ether_ntoa_r, ether_aton_r - Ethernet address manipulation routines

LIBRARY

```
Standard C library (libc, -lc)
```

SYNOPSIS

DESCRIPTION

ether_aton() converts the 48-bit Ethernet host address *asc* from the standard hex-digits-and-colons notation into binary data in network byte order and returns a pointer to it in a statically allocated buffer, which subsequent calls will overwrite. **ether_aton**() returns NULL if the address is invalid.

The **ether_ntoa**() function converts the Ethernet host address *addr* given in network byte order to a string in standard hex-digits-and-colons notation, omitting leading zeros. The string is returned in a statically allocated buffer, which subsequent calls will overwrite.

The **ether_ntohost**() function maps an Ethernet address to the corresponding hostname in /etc/ethers and returns nonzero if it cannot be found.

The **ether_hostton**() function maps a hostname to the corresponding Ethernet address in /etc/ethers and returns nonzero if it cannot be found.

The **ether_line**() function parses a line in /etc/ethers format (ethernet address followed by whitespace followed by hostname; '#' introduces a comment) and returns an address and hostname pair, or nonzero if it cannot be parsed. The buffer pointed to by *hostname* must be sufficiently long, for example, have the same length as *line*.

The functions **ether_ntoa_r**() and **ether_aton_r**() are reentrant thread-safe versions of **ether_ntoa**() and **ether_aton**() respectively, and do not use static buffers.

The structure *ether addr* is defined in <*net/ethernet.h>* as:

```
struct ether_addr {
    uint8_t ether_addr_octet[6];
}
```

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
ether_aton(), ether_ntoa()	Thread safety	MT-Unsafe
<pre>ether_ntohost(), ether_hostton(), ether_line(), ether_ntoa_r(),</pre>	Thread safety	MT-Safe
ether_aton_r()		

STANDARDS

4.3BSD, SunOS.

BUGS

In glibc 2.2.5 and earlier, the implementation of **ether_line**() is broken.

SEE ALSO

ethers(5)