NAME

sockatmark - determine whether socket is at out-of-band mark

SYNOPSIS

```
#include <sys/socket.h>
```

int sockatmark(int sockfd);

Feature Test Macro Requirements for glibc (see **feature_test_macros**(7)):

```
sockatmark(): _POSIX_C_SOURCE >= 200112L
```

DESCRIPTION

sockatmark() returns a value indicating whether or not the socket referred to by the file descriptor *sockfd* is at the out-of-band mark. If the socket is at the mark, then 1 is returned; if the socket is not at the mark, 0 is returned. This function does not remove the out-of-band mark.

RETURN VALUE

A successful call to **sockatmark**() returns 1 if the socket is at the out-of-band mark, or 0 if it is not. On error, -1 is returned and *errno* is set to indicate the error.

ERRORS

EBADF

sockfd is not a valid file descriptor.

EINVAL

sockfd is not a file descriptor to which sockatmark() can be applied.

VERSIONS

sockatmark() was added to glibc in version 2.2.4.

ATTRIBUTES

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

Interface	Attribute	Value
sockatmark()	Thread safety	MT-Safe

CONFORMING TO

POSIX.1-2001, POSIX.1-2008.

NOTES

If sockatmark() returns 1, then the out-of-band data can be read using the MSG_OOB flag of recv(2).

Out-of-band data is supported only on some stream socket protocols.

sockatmark() can safely be called from a handler for the SIGURG signal.

sockatmark() is implemented using the SIOCATMARK ioctl(2) operation.

BUGS

Prior to glibc 2.4, sockatmark() did not work.

EXAMPLE

The following code can be used after receipt of a **SIGURG** signal to read (and discard) all data up to the mark, and then read the byte of data at the mark:

```
char buf[BUF_LEN];
char oobdata;
int atmark, s;

for (;;) {
   atmark = sockatmark(sockfd);
   if (atmark == -1) {
      perror("sockatmark");
      break;
   }
```

SEE ALSO

fcntl(2), recv(2), send(2), tcp(7)

COLOPHON

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