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

This page is part of release 5.05 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/.

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