The Open Group Base Specifications Issue 7, 2018 edition
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NAME

poll.h - definitions for the poll() function

SYNOPSIS

```
#include <poll.h>
```

DESCRIPTION

The *<poll.h>* header shall define the **pollfd** structure, which shall include at least the following members:

```
int    fd       The following descriptor being polled.
short  events   The input event flags (see below).
short  revents  The output event flags (see below).
```

The *<poll.h>* header shall define the following type through **typedef**:

nfds_t
     An unsigned integer type used for the number of file descriptors.

The implementation shall support one or more programming environments in which the width of **nfds_t** is no greater than the width of type **long.** The names of these programming environments can be obtained using the *confstr*() function or the *getconf* utility.

The *<poll.h>* header shall define the following symbolic constants, zero or more of which may be OR'ed together to form the *events* or *revents* members in the **pollfd** structure:

POLLIN
     Data other than high-priority data may be read without blocking.
POLLRDNORM
     Normal data may be read without blocking.
POLLRDBAND
     Priority data may be read without blocking.
POLLPRI
     High priority data may be read without blocking.
POLLOUT
     Normal data may be written without blocking.
POLLWRNORM
     Equivalent to POLLOUT.
POLLWRBAND
     Priority data may be written.
POLLERR
     An error has occurred (*revents* only).
POLLHUP
     Device has been disconnected (*revents* only).
POLLNVAL
     Invalid *fd* member (*revents* only).

The significance and semantics of normal, priority, and high-priority data are file and device-specific.

The following shall be declared as a function and may also be defined as a macro. A function prototype shall be provided.

```
int    poll(struct pollfd [], nfds_t, int);
```

The following sections are informative.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

XSH *confstr*, *poll*

XCU *getconf*

CHANGE HISTORY

First released in Issue 4, Version 2.

Issue 6

The description of the symbolic constants is updated to match the *poll()* function.

Text related to STREAMS has been moved to the *poll()* reference page.

A note is added to the DESCRIPTION regarding the significance and semantics of normal, priority, and high-priority data.

Issue 7

The *<poll.h>* header is moved from the XSI option to the Base.

End of informative text.

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