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The Open Group Base Specifications Issue 7, 2018 edition IEEE Std 1003.1-2017 (Revision of IEEE Std 1003.1-2008) Copyright © 2001-2018 IEEE and The Open Group

NAME

```
sys/select.h - select types
```

SYNOPSIS

#include <sys/select.h>

DESCRIPTION

The <sys/select.h> header shall define the **timeval** structure, which shall include at least the following members:

```
time_t tv_sec Seconds.
suseconds_t tv_usec Microseconds.
```

The $\langle sys/select.h \rangle$ header shall define the **time_t** and **suseconds_t** types as described in $\langle sys/types.h \rangle$.

The <sys/select.h> header shall define the sigset_t type as described in <signal.h>.

The <sys/select.h> header shall define the timespec structure as described in <time.h>.

The <sys/select.h> header shall define the fd_set type as a structure.

The <sys/select.h> header shall define the following symbolic constant, which shall have a value suitable for use in **#if** preprocessing directives:

```
FD_SETSIZE
```

Maximum number of file descriptors in an fd_set structure.

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

```
void FD_CLR(int, fd_set *);
int FD_ISSET(int, fd_set *);
void FD_SET(int, fd_set *);
void FD_ZERO(fd_set *);
```

If implemented as macros, these may evaluate their arguments more than once, so applications should ensure that the arguments they supply are never expressions with side-effects.

The following shall be declared as functions and may also be defined as macros. Function prototypes shall be provided.

Inclusion of the <sys/select.h> header may make visible all symbols from the headers <signal.h> and <time.h>.

06.05.2022, 07:41 <sys/select.h>

The following sections are informative.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

<signal.h>, <sys/time.h>, <sys/types.h> , <time.h>
XSH pselect

CHANGE HISTORY

First released in Issue 6. Derived from IEEE Std 1003.1g-2000.

The requirement for the **fd_set** structure to have a member *fds_bits* has been removed as per The Open Group Base Resolution bwg2001-005.

Issue 7

SD5-XBD-ERN-6 is applied, reordering the DESCRIPTION.

This reference page is clarified with respect to macros and symbolic constants.

End of informative text.

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