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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'sys\_select.h.0p' command**

### **\$ man sys\_select.h.0p**

sys\_select.h(0P)      POSIX Programmer's Manual      sys\_select.h(0P)

#### PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

#### 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 <sys/select.h> header shall define the `time_t` and `suseconds_t` types as described in <sys/types.h>.

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?

tives:

`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.

```
int pselect(int, fd_set *restrict, fd_set *restrict, fd_set *restrict,
            const struct timespec *restrict, const sigset_t *restrict);
int select(int, fd_set *restrict, fd_set *restrict, fd_set *restrict,
           struct timeval *restrict);
```

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

The System Interfaces volume of POSIX.1?2017, `pselect()`

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