

sigaddset(3p) — Linux manual page

[PROLOG](#) | [NAME](#) | [SYNOPSIS](#) | [DESCRIPTION](#) | [RETURN VALUE](#) | [ERRORS](#) | [EXAMPLES](#) | [APPLICATION USAGE](#) | [RATIONALE](#) | [FUTURE DIRECTIONS](#) | [SEE ALSO](#) | [COPYRIGHT](#)

SIGADDSET(3P)

POSIX Programmer's Manual

SIGADDSET(3P)

PROLOG [top](#)

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 [top](#)

`sigaddset` – add a signal to a signal set

SYNOPSIS [top](#)

```
#include <signal.h>

int sigaddset(sigset_t *set, int signo);
```

DESCRIPTION [top](#)

The `sigaddset()` function adds the individual signal specified by the `signo` to the signal set pointed to by `set`.

Applications shall call either `sigemptyset()` or `sigfillset()` at least once for each object of type **sigset_t** prior to any other use of that object. If such an object is not initialized in this way, but is nonetheless supplied as an argument to any of `pthread_sigmask()`, `sigaction()`, `sigaddset()`, `sigdelset()`, `sigismember()`, `sigpending()`, `sigprocmask()`, `sigsuspend()`, `sigtimedwait()`, `sigwait()`, or `sigwaitinfo()`, the results are undefined.

RETURN VALUE [top](#)

Upon successful completion, `sigaddset()` shall return 0; otherwise, it shall return -1 and set `errno` to indicate the error.

ERRORS [top](#)

The `sigaddset()` function may fail if:

EINVAL The value of the `signo` argument is an invalid or unsupported signal number.

The following sections are informative.

EXAMPLES [top](#)

None.

APPLICATION USAGE [top](#)

None.

RATIONALE [top](#)

None.

FUTURE DIRECTIONS [top](#)

None.

SEE ALSO [top](#)

Section 2.4, Signal Concepts, [pthread_sigmask\(3p\)](#), [sigaction\(3p\)](#), [sigdelset\(3p\)](#), [sigemptyset\(3p\)](#), [sigfillset\(3p\)](#), [sigismember\(3p\)](#), [sigpending\(3p\)](#), [sigsuspend\(3p\)](#)

The Base Definitions volume of POSIX.1-2017, [signal.h\(0p\)](#)

COPYRIGHT [top](#)

Portions of this text are reprinted and reproduced in electronic form from IEEE Std 1003.1-2017, Standard for Information Technology -- Portable Operating System Interface (POSIX), The Open Group Base Specifications Issue 7, 2018 Edition, Copyright (C) 2018 by the Institute of Electrical and Electronics Engineers, Inc and The Open Group. In the event of any discrepancy between this version and the original IEEE and The Open Group Standard, the original IEEE and The Open Group Standard is the referee document. The original Standard can be obtained online at <http://www.opengroup.org/unix/online.html>.

Any typographical or formatting errors that appear in this page are most likely to have been introduced during the conversion of the source files to man page format. To report such errors, see

https://www.kernel.org/doc/man-pages/reporting_bugs.html .

IEEE/The Open Group

2017

SIGADDSET(3P)

Pages that refer to this page: [signal.h\(0p\)](#), [pthread_sigmask\(3p\)](#), [sigaction\(3p\)](#), [sigdelset\(3p\)](#), [sigemptyset\(3p\)](#), [sigfillset\(3p\)](#), [sigismember\(3p\)](#), [sigpending\(3p\)](#), [sigsuspend\(3p\)](#)

HTML rendering created 2021-08-27 by [Michael Kerrisk](#), author of *The Linux Programming Interface*, maintainer of the [Linux man-pages project](#).

For details of in-depth **Linux/UNIX system programming training courses** that I teach, look [here](#).

Hosting by [jambit GmbH](#).

