



Linux Ubuntu 26.04 Manual Pages on command 'sigqueue.3'

\$ man sigqueue.3

sigqueue(3) Library Functions Manual sigqueue(3)

NAME

sigqueue - queue a signal and data to a process

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#include <signal.h>
```

```
int sigqueue(pid_t pid, int sig, const union sigval value);
```

Feature Test Macro Requirements for glibc (see feature_test_macros(7)):

```
sigqueue():
```

```
    _POSIX_C_SOURCE >= 199309L
```

DESCRIPTION

sigqueue() sends the signal specified in sig to the process whose PID is given in pid. The permissions required to send a signal are the same as for kill(2). As with kill(2), the null signal (0) can be used to check if a process with a given PID exists.

The value argument is used to specify an accompanying item of data (either an integer or a pointer value) to be sent with the signal, and has the following type:

```
union sigval {
    int sival_int;
    void *sival_ptr;
};
```

If the receiving process has installed a handler for this signal using the SA_SIGINFO flag to sigaction(2), then it can obtain this data via the si_value field of the siginfo_t struc?

RETURN VALUE

ERRORS

EINVAL sig was invalid.

For the required permissions, see `kill(2)`.

ATTRIBUTES

[illegible][illegible][illegible]

VERSIONS

C library/kernel differences

```
uinfo.si_signo = sig;    /* Argument supplied to sigqueue() */
```

```
uinfo.si code = SI_QUEUE;
```

```
uinfo.si_pid = getpid(); /* Process ID of sender */
```

```
uinfo.si_uid = getuid(); /* Real UID of sender */
```

```
uinfo.si_value = val;    /* Argument supplied to sigqueue() */
```

STANDARDS

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HISTORY

Linux 2.2. POSIX.1-2001.

NOTES

If this function results in the sending of a signal to the process that invoked it, and that signal was not blocked by the calling thread, and no other threads were willing to handle this signal (either by having it unblocked, or by waiting for it using `sigwait(3)`), then at least some signal must be delivered to this thread before this function returns.

SEE ALSO

`kill(2)`, `rt_sigqueueinfo(2)`, `sigaction(2)`, `signal(2)`, `pthread_sigqueue(3)`, `sigwait(3)`, `sig?nal(7)`

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2026-02-08

`sigqueue(3)`