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Rocky Enterprise Linux 9.2 Manual Pages on command 'wait4.2'

# \$ man wait4.2

WAIT4(2) Linux Programmer's Manual WAIT4(2)

### NAME

wait3, wait4 - wait for process to change state, BSD style

## SYNOPSIS

#include <sys/types.h>

#include <sys/time.h>

#include <sys/resource.h>

#include <sys/wait.h>

pid\_t wait3(int \*wstatus, int options,

struct rusage \*rusage);

pid\_t wait4(pid\_t pid, int \*wstatus, int options,

struct rusage \*rusage);

Feature Test Macro Requirements for glibc (see feature\_test\_macros(7)):

wait3():

Since glibc 2.26:

\_DEFAULT\_SOURCE ||

(\_XOPEN\_SOURCE >= 500 &&

! (\_POSIX\_C\_SOURCE >= 200112L || \_XOPEN\_SOURCE >= 600))

From glibc 2.19 to 2.25:

\_DEFAULT\_SOURCE || \_XOPEN\_SOURCE >= 500

Glibc 2.19 and earlier:

\_BSD\_SOURCE || \_XOPEN\_SOURCE >= 500

wait4():

Since glibc 2.19:

\_DEFAULT\_SOURCE

Glibc 2.19 and earlier:

\_BSD\_SOURCE

## DESCRIPTION

These functions are nonstandard; in new programs, the use of waitpid(2)

or waitid(2) is preferable.

The wait3() and wait4() system calls are similar to waitpid(2), but ad?

ditionally return resource usage information about the child in the

structure pointed to by rusage.

Other than the use of the rusage argument, the following wait3() call:

wait3(wstatus, options, rusage);

is equivalent to:

waitpid(-1, wstatus, options);

Similarly, the following wait4() call:

wait4(pid, wstatus, options, rusage);

is equivalent to:

waitpid(pid, wstatus, options);

In other words, wait3() waits of any child, while wait4() can be used

to select a specific child, or children, on which to wait. See wait(2)

for further details.

If rusage is not NULL, the struct rusage to which it points will be

filled with accounting information about the child. See getrusage(2)

for details.

## **RETURN VALUE**

As for waitpid(2).

# ERRORS

As for waitpid(2).

## CONFORMING TO

4.3BSD.

SUSv1 included a specification of wait3(); SUSv2 included wait3(), but marked it LEGACY; SUSv3 removed it.

### NOTES

Including <sys/time.h> is not required these days, but increases porta? bility. (Indeed, <sys/resource.h> defines the rusage structure with fields of type struct timeval defined in <sys/time.h>.)

C library/kernel differences

On Linux, wait3() is a library function implemented on top of the wait4() system call.

# SEE ALSO

fork(2), getrusage(2), sigaction(2), signal(2), wait(2), signal(7)

## COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-pages/.

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