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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'wait3.2' command

\$ man wait3.2

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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():
```

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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.
```

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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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