wait3(2) - Linux man page

Traduire

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 *status, int options,
            struct rusage *rusage);

pid_t wait4(pid_t pid, int *status, int options,
            struct rusage *rusage);
```

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

wait3():
    _BSD_SOURCE || _XOPEN_SOURCE >= 500 || _XOPEN_SOURCE &&
    _XOPEN_SOURCE_EXTENDED
wait4():
    _BSD_SOURCE

Description

These functions are obsolete; use **waitpid**(2) or **waitid**(2) in new programs.

The **wait3**() and **wait4**() system calls are similar to **waitpid**(2), but additionally 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(status, options, rusage);
```

is equivalent to:

```
waitpid(-1, status, options);
```

Similarly, the following **wait4**() call:

```
wait4(pid, status, options, rusage);
```

is equivalent to:

```
waitpid(pid, status, 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 portability. (Indeed, <*sys/resource.h*> defines the *rusage* structure with fields of type *struct timeval* defined in <*sys/time.h*>.)

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)

Referenced By

explain(1), **explain**(3), **explain_wait3**(3), **explain_wait3_or_die**(3), **pmloop**(3), **time**(1)