



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

XSI requires that CLOCKS_PER_SEC equals 1000000 independent of the actual resolution.

On several other implementations, the value returned by `clock()` also includes the times of any children whose status has been collected via `wait(2)` (or another wait-type call). Linux does not include the times of waited-for children in the value returned by `clock()`. The `times(2)` function, which explicitly returns (separate) information about the caller and its children, may be preferable.

STANDARDS

C11, POSIX.1-2008.

HISTORY

POSIX.1-2001, C89.

In glibc 2.17 and earlier, `clock()` was implemented on top of `times(2)`. For improved accuracy, since glibc 2.18, it is implemented on top of `clock_gettime(2)` (using the `CLOCK_PROCESS_CPUTIME_ID` clock).

NOTES

The C standard allows for arbitrary values at the start of the program; subtract the value returned from a call to `clock()` at the start of the program to get maximum portability.

Note that the time can wrap around. On a 32-bit system where `CLOCKS_PER_SEC` equals 1000000 this function will return the same value approximately every 72 minutes.

SEE ALSO

`clock_gettime(2)`, `getrusage(2)`, `times(2)`

Linux man-pages 6.17

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`clock(3)`