Rocky Enterprise Linux 9.2 Manual Pages on command 'clock.3'

$ man clock.3

CLOCK(3)   Linux Programmer's Manual   CLOCK(3)

NAME

   clock - determine processor time

SYNOPSIS

   #include <time.h>

   clock_t clock(void);

DESCRIPTION

   The clock() function returns an approximation of processor time used by

   the program.

RETURN VALUE

   The value returned is the CPU time used so far as a clock_t; to get the

   number of seconds used, divide by CLOCKS_PER_SEC. If the processor

   time used is not available or its value cannot be represented, the

   function returns the value (clock_t) -1.

ATTRIBUTES

   For an explanation of the terms used in this section, see at?

   tributes(7).

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?Interface ? Attribute   ? Value   ?

??????????????????????????????????????

?clock()   ? Thread safety ? MT-Safe ?

??????????????????????????????????????

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, C89, C99. XSI requires that CLOCKS_PER_SEC

equals 1000000 independent of the actual resolution.

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.

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.

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).

SEE ALSO

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

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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