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

$ man ualarm.3

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

NAME

    ualarm - schedule signal after given number of microseconds

SYNOPSIS

    #include <unistd.h>

    useconds_t ualarm(useconds_t usecs, useconds_t interval);

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

    ualarm():

      Since glibc 2.12:

        (_XOPEN_SOURCE >= 500) && ! (_POSIX_C_SOURCE >= 200809L)

          || /* Glibc since 2.19: */ _DEFAULT_SOURCE

          || /* Glibc versions <= 2.19: */ _BSD_SOURCE

      Before glibc 2.12:

        _BSD_SOURCE || _XOPEN_SOURCE >= 500

DESCRIPTION

    The ualarm() function causes the signal SIGALRM to be sent to the invoking process after

    (not less than) usecs microseconds. The delay may be lengthened slightly by any system

    activity or by the time spent processing the call or by the granularity of system timers.

    Unless caught or ignored, the SIGALRM signal will terminate the process.

    If the interval argument is nonzero, further SIGALRM signals will be sent every interval

    microseconds after the first.

RETURN VALUE

    This function returns the number of microseconds remaining for any alarm that was previ?

ously set, or 0 if no alarm was pending.

ERRORS

EINTR Interrupted by a signal; see signal(7).

EINVAL usecs or interval is not smaller than 1000000. (On systems where that is consid?

ered an error.)

ATTRIBUTES

For an explanation of the terms used in this section, see attributes(7).

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

?Interface ? Attribute   ? Value   ?

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

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

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

CONFORMING TO

4.3BSD, POSIX.1-2001. POSIX.1-2001 marks ualarm() as obsolete. POSIX.1-2008 removes the

specification of ualarm(). 4.3BSD, SUSv2, and POSIX do not define any errors.

NOTES

POSIX.1-2001 does not specify what happens if the usecs argument is 0. On Linux (and

probably most other systems), the effect is to cancel any pending alarm.

The type useconds_t is an unsigned integer type capable of holding integers in the range

[0,1000000]. On the original BSD implementation, and in glibc before version 2.1, the ar?

guments to ualarm() were instead typed as unsigned int. Programs will be more portable if

they never mention useconds_t explicitly.

The interaction of this function with other timer functions such as alarm(2), sleep(3),

nanosleep(2), setitimer(2), timer_create(2), timer_delete(2), timer_getoverrun(2),

timer_gettime(2), timer_settime(2), usleep(3) is unspecified.

This function is obsolete. Use setitimer(2) or POSIX interval timers (timer_create(2),

etc.) instead.

SEE ALSO

alarm(2), getitimer(2), nanosleep(2), select(2), setitimer(2), usleep(3), time(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/.