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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'ualarm.3' command

\$ 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 in? voking process after (not less than) usecs microseconds. The delay may be lengthened slightly by any system activity or by the time spent pro? cessing 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 previously 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 considered an error.)

ATTRIBUTES

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

tributes(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 in? tegers in the range [0,1000000]. On the original BSD implementation, and in glibc before version 2.1, the arguments 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_set? time(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This function is obsolete.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/.

2017-09-15 UALARM(3)