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

\$ man timersub.3

TIMERADD(3)

Linux Programmer's Manual

TIMERADD(3)

NAME

timeradd, timersub, timercmp, timerclear, timerisset - timeval opera?

tions

SYNOPSIS

```
#include <sys/time.h>
```

void timeradd(struct timeval *a, struct timeval *b,

struct timeval *res);

void timersub(struct timeval *a, struct timeval *b,

struct timeval *res);

void timerclear(struct timeval *tvp);

int timerisset(struct timeval *tvp);

int timercmp(struct timeval *a, struct timeval *b, CMP);

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

All functions shown above:

Since glibc 2.19:

_DEFAULT_SOURCE

Glibc 2.19 and earlier: Page 1/3

DESCRIPTION

CONFORMING TO

Not in POSIX.1. Present on most BSD derivatives.

```
The macros are provided to operate on timeval structures, defined in
    <sys/time.h> as:
      struct timeval {
         time t tv sec; /* seconds */
         suseconds_t tv_usec; /* microseconds */
      };
    timeradd() adds the time values in a and b, and places the sum in the
    timeval pointed to by res. The result is normalized such that
    res->tv usec has a value in the range 0 to 999,999.
    timersub() subtracts the time value in b from the time value in a, and
    places the result in the timeval pointed to by res. The result is nor?
    malized such that res->tv_usec has a value in the range 0 to 999,999.
    timerclear() zeros out the timeval structure pointed to by tvp, so that
    it represents the Epoch: 1970-01-01 00:00:00 +0000 (UTC).
    timerisset() returns true (nonzero) if either field of the timeval
    structure pointed to by typ contains a nonzero value.
    timercmp() compares the timer values in a and b using the comparison
    operator CMP, and returns true (nonzero) or false (0) depending on the
    result of the comparison. Some systems (but not Linux/glibc), have a
    broken timercmp() implementation, in which CMP of >=, <=, and == do not
    work; portable applications can instead use
      !timercmp(..., <)
      !timercmp(..., >)
      !timercmp(..., !=)
RETURN VALUE
    timerisset() and timercmp() return true (nonzero) or false (0).
ERRORS
    No errors are defined.
```

SEE ALSO Page 2/3

gettimeofday(2), 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/.

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