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

\$ man timegm.3

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

NAME

timegm, timelocal - inverses of gmtime and localtime

SYNOPSIS

```
#include <time.h>

time_t timelocal(struct tm *tm);

time_t timegm(struct tm *tm);
```

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

timelocal(), timegm():

Since glibc 2.19:

```
  _DEFAULT_SOURCE
```

Glibc 2.19 and earlier:

```
  _BSD_SOURCE || _SVID_SOURCE
```

DESCRIPTION

The functions `timelocal()` and `timegm()` are the inverses of `localtime(3)` and `gmtime(3)`.

Both functions take a broken-down time and convert it to calendar time (seconds since the Epoch, 1970-01-01 00:00:00 +0000, UTC). The difference between the two functions is that `timelocal()` takes the local timezone into account when doing the conversion, while `timegm()` takes the input value to be Coordinated Universal Time (UTC).

RETURN VALUE

On success, these functions return the calendar time (seconds since the Epoch), expressed as a value of type `time_t`. On error, they return the value `(time_t) -1` and set `errno` to indicate the cause of the error.

ERRORS

EOverflow

The result cannot be represented.

ATTRIBUTES

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

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?Interface ? Attribute ? Value ?

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?timelocal(), timegm() ? Thread safety ? MT-Safe env locale ?

??

CONFORMING TO

These functions are nonstandard GNU extensions that are also present on the BSDs. Avoid their use.

NOTES

The timelocal() function is equivalent to the POSIX standard function mktime(3). There is no reason to ever use it.

SEE ALSO

gmtime(3), localtime(3), mktime(3), tzset(3)

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/>.