



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

**C:\>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), or `-1` on error.

pressed 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).

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

?Interface ? Attribute ? Value ?

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

?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 5.05 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/>.