<ctime>

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C library: <cassert> (assert.h) <cctype> (ctype.h) <cerrno> (errno.h) <cfenv> (fenv.h) <cfloat> (float.h) <cinttypes> (inttypes.h) <ciso646> (iso646.h) <cli>its> (limits.h) <clocale> (locale.h) <cmath> (math.h) <csetimp> (setimp.h) <csignal> (signal.h) <cstdarg> (stdarg.h) <cstdbool> (stdbool.h) <cstddef> (stddef.h) <cstdint> (stdint.h) <cstdio> (stdio.h) <cstdlib> (stdlib.h) <cstring> (string.h) <ctgmath> (tgmath.h) <ctime> (time.h) <cuchar> (uchar.h) <cwchar> (wchar.h) <cwctype> (wctype.h) Containers: Input/Output: Multi-threading:

Other:

<ctime> (time.h) functions: asctime clock ctime difftime gmtime localtime mktime strftime time macros: CLOCKS_PER_SEC NULL types: clock_t size_t time_t struct tm

```
function localtime
```

struct tm * localtime (const time_t * timer);

Convert time_t to tm as local time

.NET document viewer API

Uses the value pointed by *timer* to fill a tm structure with the values that represent the corresponding time, expressed for the local timezone.

Parameters

timer

Pointer to an object of type time t that contains a time value.

time_t is an alias of a fundamental *arithmetic type* capable of representing times as returned by function time.

Return Value

A pointer to a tm structure with its members filled with the values that correspond to the local time representation of timer.

The returned value points to an internal object whose validity or value may be altered by any subsequent call to gmtime or localtime.

Example

```
1 /* localtime example */
                                 /* puts, printf */
/* time_t, struct tm, time, localtime */
2 #include <stdio.h>
3 #include <time.h>
 5 int main ()
 6 {
     time_t rawtime;
struct tm * timeinfo;
 8
                                                                                        Edit & Run
10
     timeinfo = localtime (&rawtime);
11
     printf ("Current local time and date: %s", asctime(timeinfo));
12
13
14
15 }
```

Output:

Current local time and date: Wed Feb 13 17:17:11 2013

Data races

The function accesses the object pointed by timer.

The function also accesses and modifies a shared internal object, which may introduce data races on concurrent calls to gmtime and localtime. Some libraries provide an alternative function that avoids this data race: localtime_r (non-portable).

Exceptions (C++)

No-throw guarantee: this function never throws exceptions.

See also

asctime	Convert tm structure to string (function)
ctime	Convert time_t value to string (function)
gmtime	Convert time_t to tm as UTC time (function)
mktime	Convert tm structure to time_t (function)
time	Get current time (function)

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