

NAME

timespec_get - get current calendar time

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

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

int

```
timespec_get(struct timespec *ts, int base);
```

DESCRIPTION

The **timespec_get** function sets the interval pointed to by *ts* to hold the current calendar time based on the specified time base in *base*.

The base `TIME_UTC` returns the time since the epoch. This time is expressed in seconds and nanoseconds since midnight (0 hour), January 1, 1970. In FreeBSD, this corresponds to `CLOCK_REALTIME`.

The base `TIME_MONOTONIC` returns a monotonically-increasing time since an unspecified point in the past. In FreeBSD, this corresponds to `CLOCK_MONOTONIC`.

RETURN VALUES

The **timespec_get** function returns the passed value of *base* if successful, otherwise 0 on failure.

SEE ALSO

clock_gettime(2), gettimeofday(2), time(3), timespec_getres(3)

STANDARDS

The **timespec_get** function with a *base* of `TIME_UTC` conforms to ISO/IEC 9899:2011 ("ISO C11").

HISTORY

This interface first appeared in FreeBSD 12.

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