

**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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