## **NAME**

\_\_ppc\_get\_timebase, \_\_ppc\_get\_timebase\_freq - get the current value of the Time Base Register on Power architecture and its frequency.

#### **LIBRARY**

Standard C library (libc, -lc)

## **SYNOPSIS**

```
#include <sys/platform/ppc.h>
uint64_t __ppc_get_timebase(void);
uint64_t __ppc_get_timebase_freq(void);
```

## DESCRIPTION

\_\_ppc\_get\_timebase() reads the current value of the Time Base Register and returns its value, while \_\_ppc\_get\_timebase\_freq() returns the frequency in which the Time Base Register is updated.

The Time Base Register is a 64-bit register provided by Power Architecture processors. It stores a monotonically incremented value that is updated at a system-dependent frequency that may be different from the processor frequency.

## **RETURN VALUE**

**\_\_ppc\_get\_timebase**() returns a 64-bit unsigned integer that represents the current value of the Time Base Register.

**\_\_ppc\_get\_timebase\_freq**() returns a 64-bit unsigned integer that represents the frequency at which the Time Base Register is updated.

#### **VERSIONS**

GNU C Library support for **\_\_ppc\_get\_timebase**() has been provided since glibc 2.16 and **\_\_ppc\_get\_timebase\_freq**() has been available since glibc 2.17.

## **STANDARDS**

Both functions are nonstandard GNU extensions.

## **EXAMPLES**

The following program will calculate the time, in microseconds, spent between two calls to **\_\_ppc\_get\_timebase**().

# **Program source**