

# How to read the time from a timer

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version	1.1.1
scope	Example. This code is provided as example code for a user to base their code on.
description	How to read the time from a timer
boards	Unless otherwise specified, this example runs on the SliceKIT Core Board, but can easily be run on any XMOS device by using a different XN file.

A timer is a xCORE resource with a 32-bit counter that is continually incremented at a rate of 100MHz. You can declare a timer as follows:

```
timer t;
```

Timers may be declared as local variables inside a function or as global variables. An input statement can be used to read the value of a timer's counter (i.e. read the current time). This is done via the operator `:>` used to specify an input:

```
unsigned int time;  
  
t :> time;
```

This will input the current time from the timer `t` to the variable `time`.