Application Note: AN10084

How to wait for a period of time using a timer

This application note is a short how-to on programming/using the xTIMEcomposer tools. It shows how to wait for a period of time using a timer.

Required tools and libraries

This application note is based on the following components:

- xTIMEcomposer Tools - Version 14.0.0

Required hardware

Programming how-tos are generally not specific to any particular hardware and can usually run on all XMOS devices. See the contents of the note for full details.

1   How to wait for a period of time using a timer

Timers can be used to pause a task until a certain amount of time has passed. First input the current time from the timer:

```
t :> start_time;
```

Next compute the time you want the task to wait until, by adding the desired number of timer ticks to the start time:

```
end_time = start_time + 123;
```

Finally use the following statement to wait for end_time to be reached:

```
t when timerafter(end_time) :> void;
```