

Application Note: AN10048

How to wait for a condition on an input port

This application note is a short how-to on programming/using the xTIMEcomposer tools. It shows how to wait for a condition on an input port.

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 condition on an input port

An input operation can be made to wait for one of two conditions on a port: equal to (pinseq) or not equal to (pinsneq) some value.

The following statement instructs `input_port` to wait until the value seen on its pins is not equal to `input_value` before sampling and providing it to the processor to store in `input_value`.

```
input_port when pinsneq(input_value) :> input_value;
```