How to wait for a condition on an input port

version	1.1.1
scope	Example. This code is provided as example code for a user to base their code on.
description	How to wait for a condition on an input port
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.

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 stored 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;
```

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