How to input data accompanied by a data valid signal

version	1.1.0
scope	Example. This code is provided as example code for a user to base their code on.
description	How to input data accompanied by a data valid signal
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 clocked port can interpret a ready-in strobe signal that determines the validity of the accompanying data. The example below inputs data from a clocked port only when a ready-in signal is high.

The following statement configures the input port inP to be sampled only when the value sampled on the port inReady equals 1. The ready-in port must be 1-bit wide.

```
configure_in_port_strobed_slave(inP, inReady, clk);
```

Data is sampled on the rising edge of the clock whenever the ready-in signal is high. The port samples two 4-bit values and combines them to produce a single 8-bit value for input by the processor.

```
inP :> void;
```