How to select on a port

This application note is a short how-to on programming/using the xTIMEcomposer tools. It shows how to select on a 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 select on a port

Port activity can cause events which a task can react to via a `select` statement.

For example, the following select waits until the value on the pins of port p is equal to 1 and then reacts to that event, inputting on that port into the variable x.

```
select {
case p when pinseq(0x1) :> int x:
  // handle the event here
  break;
}

/* Note that without external activity on the pins (for example in the
   simulator) this example will just wait forever. */
return 0;
}
```