version	1.1.0
scope	Example. This code is provided as example code for a user to base their code on.
description	How to use a select function
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.
Salact statements can be implemented as functions, allowing their rouse in different	

Select statements can be implemented as functions, allowing their reuse in different contexts.

The declaration

select channel_input(chanend c_a, chanend c_b)

declares $channel_input$ to be a select function that takes two arguments c_a and c_b . The body of the select function adheres to the same rules as the select statement.

```
{
    case c_a :> int chnl_input_a :
        printstr("Channel Input A Received ");
        printintln(chnl_input_a);
        break;
    case c_b :> int chnl_input_b :
        printstr("Channel Input B Received ");
        printintln(chnl_input_b);
        break;
}
```

You can call the select function from the relevant location in the program. In this example the select function is nested within a select statement where it is inputting data from either one of the two channel ends c_a, c_b or from the input port port_in

```
select {
  case channel_input(c_a, c_b);
  case port_in when pinsneq(port_input_data) :> port_input_data :
    do_port_input(port_input_data);
    break;
}
```

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