Application Note: AN10074

How to use the select statement

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

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 use the select statement

A select statement waits for one of a set of inputs to become ready, performs the selected input and then executes a corresponding body of code. Each input is proceeded by the keyword case and its body must be terminated with a break or return statement. Case statements are not permitted to contain output operations.

In this example the select statement is used to wait for either an input on chnlend_a or an input on chnlend_b. When an input is received from either channel the value of the input is printed.

```
select
{
  case chnlend_a :>  chnl_input_a :
    printstr("Channel Input A Received ");
    printintln(chnl_input_a);
    break;
  case chnlend_b :> chnl_input_b :
    printstr("Channel Input B Received ");
    printintln(chnl_input_b);
    break;
}
```