How to use xSCOPE I/O on the XMOS simulator

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`version`	1.1.1
`scope`	Example. This code is provided as example code for a user to base their code on.
`description`	How to use xSCOPE I/O on the XMOS simulator
`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.

Compile the following code:

```
#include <print.h>
int main() {
    printstr("Hello World\n");
    return 0;
}
```

Note: xSCOPE is enabled and the *ioMode* is set to *basic* in the config.xscope file.

1 To run using the xTIMEcomposer studio

Select *Run -> Run Configurations*, and double click on the *xCORE Application* option. This will create a new Run configuration. In the *Device options* group, check the *simulator* box. xSCOPE I/O can be enabled by checking the *Offline* box in the xSCOPE tab. Running this example will then display the output in the console view.

2 To run from the command line

xsim a.xe –xscope '-offline xscope.xmt'

It is worth noting however, that the handling of system calls by the XMOS simulator is instantaneous from the point of view of the target. Therefore, using xSCOPE for I/O redirection will make the target run slower, thus is of limited use in reality.

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