

Application Note: AN10093

How to use offline xSCOPE on the XMOS simulator

This application note is a short how-to on programming/using the xTIMEcomposer tools. It shows how to use offline xSCOPE on the XMOS simulator.

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 offline xSCOPE on the XMOS simulator

Compile the following code:

```
#include <xscope.h>
int main() {
    for (int i = 0; i < 100; ++i) {
        xscope_int(VALUE1, i);
        xscope_int(VALUE2, i * 2);
        xscope_int(VALUE3, i * 3);
    }
    return 0;
}</pre>
```

Note: The 3 probes used in the above example are defined in the config.xscope file.



2 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. Offline xSCOPE can be enabled via the checkbox in the xSCOPE tab. Running this example will produce a file named xscope.xmt located at the top level of the project. Double clicking on this file will open it in the Offline Scope view.



3 To run from the command line

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

Running the above will produce a file named *xscope.xmt* in the current directory. To view the contents of the file, open the xTIMEcomposer studio and select *Tools->XScope*. In the *Offline Scope* view, use the *Load* button in the view toolbar.



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