

How to use realtime xSCOPE on the XMOS simulator

IN THIS DOCUMENT

- ▶ To run using the xTIMEcomposer studio
 - ▶ To run from the command line
-

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 realtime xSCOPE 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 <stdlib.h>
#include <xscope.h>
int main() {
    while (1) {
        xscope_int(VALUE, rand() * 100);
    }
    return 0;
}
```

Note: The probe used in the above example is defined 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. Realtime xSCOPE can be enabled via the checkbox in the xSCOPE tab. Running this example will open the *Real-Time Scope* view and display the corresponding values.

2 To run from the command line

```
xsim bin/Debug/realtime_Debug.xe -xscope '-realtime localhost:12345'
```

Run the above. To visualise the output open the xTIMEcomposer studio and select *Tools->XRTScope*. In the *Real-Time Scope* view, click the *Connect* button in the view

toolbar. Select the IP address/port pair that matches the above command line, check the *is simulation* box, then click *Connect*.



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