How to use the xSCOPE to capture logical core information

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 the xSCOPE to capture logical core information

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.

xSCOPE is fully supported on hardware platforms which provide an XMOS link between the target device and the XSYS development connector, it is also supported via xSIM.

View the document (xSCOPE overview (see XM-000957-PC)) for further information on tracing data from XMOS applications.

This example provide a simple demonstration of using the functionality in xSCOPE to capture additional information about logical core state when tracing events. A user can add data about the id, program counter and node of a logical core generating an event. This allows a user to use register a single event which the xSCOPE system will split into multiple logical core events when processed on the host machine.

The probe configuration is handled by the user providing a config.xscope file which is picked up as part of the application build.

This example assumes you are familiar with creating a run configuration and enabling the associated xSCOPE options in that run configuration in xTIMEcomposer Studio or using the command line tools.

In order to used xSCOPE the correct header file must be included in the application

```
#include <xscope.h>
```

The xscope_core_int() function is used to send the contents of user variable current_state to the xSCOPE probe for logging and add the additional information associated with the logical core to the data transmitted.

xscope_core_int(CONTINUOUS_VALUE_1, value);

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