How to enable ASCII tracing when running on the simulator

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version1.1.1scopeExample. This code is provided as example code for a user to base
their code on.descriptionHow to enable ASCII tracing when running on the simulatorboardsUnless 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.

The simulator optionally provides a textual instruction trace.

For example, compile the following code:

```
#include <xs1.h>
port p = XS1_PORT_1A;
int main() {
    int x;
    p :> x;
    return 0;
}
```

When enabled, the input from the port 'p' into variable 'x' will produce the corresponding line in the trace file:

```
tile[0]@0- -A-.---000100cc (main + 8) : in r0(0x0), res[r0(0x10200)] @ \hookrightarrow 2127
```

See the xTIMEcomposer User Guide (Tracing Table (see XM-000930-PC)) for further information on the trace format.

1 To enable tracing from within xTIMEcomposer Studio

The ASCII simulator trace can be enabled via:

Run -> Run Configurations -> Simulator -> Dump simulator trace

Publication Date: 2013/11/15 XMOS © 2013, All Rights Reserved This will send the trace directly to the console view.

Note: If required, the trace can be redirected to a file via:

Run -> Run Configurations -> Simulator -> Trace to file

2 To enable tracing from the command line

The ASCII simulator trace can be enabled via the -t xsim command line option:

```
xsim -t a.xe
```

If tracing of fetch no-ops (FNOPS) is required, it can be enabled via the *-enable-fnop-tracing* xsim command line option:

```
xsim -t --enable-fnop-tracing a.xe
```

This will insert the lines of the following format into the trace at the relevant locations:

tile[0]@0 FNOP @2655



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