

# How to run an executable on the XMOS simulator

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version	1.1.0
scope	Example. This code is provided as example code for a user to base their code on.
description	How to run an executable 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;
}
```

## 1 To run using the simulator

From within 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.

Alternatively, to run from the command line:

```
xsim a.xe
```

This will execute the given program (a.xe) until completion, in this case displaying 'Hello World!' in the console.

## 2 To debug using the simulator

From within xTIMEcomposer Studio, select *Run -> Debug Configurations*, and double click on the *xCORE Application* option. This will create a new Debug configuration. In the *Device options* group, check the *simulator* box.

Alternatively, to debug from the command line:

```
xgdb a.xe
```

This will start the XMOS debugger. To tell the debugger to connect to the simulator use:

```
connect -s
```

Loading the program onto the target (xgdb command: *load*), and continuing (xgdb command: *continue*) will cause the program to run to completion and display 'Hello World!' on the console.



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