Frequently used commands

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This document summarizes a number of frequently-used commands that can be run using the command line.

1 XCC

To compile a program for your development board, enter the following commands:

1. xcc -print-targets

XCC displays a list of supported development boards.

2. xcc <file> -target=<board> -o <binary>

XCC compiles the file, generating an executable binary for your target board.

2 XRUN

To load a compiled program onto your development board, enter the following commands:

1. xrun -1

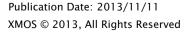
XRUN prints an enumerated list of all JTAG adapters connected to your PC and the devices on each JTAG chain, in the form:

ID	Name	Adapter ID	Devices

2. xrun --id <n> --io <binary>

XRUN loads your binary onto the hardware connected to the adapter with the specified ID.

The --io option causes XRUN to remain connected to the adapter, providing the standard output stream from your hardware to the terminal.





3 XGDB

To compile and debug your program, enter the following commands:

xcc <file> -target=<board> -o <binary> -g
XCC compiles your file with debugging information enabled.

2. xgdb bin.xe

GDB loads with a prompt.

3. list-devices

GDB prints an enumerated list of all JTAG adapters connected to your PC and the devices on each JTAG chain, in the form:

ID	Name	Adapter ID	Devices

4. connect --id <id>

GDB connects to your target hardware.

5. load

GDB loads your binary.

6. break main

GDB adds a breakpoint to the function main.

7. continue

GDB runs the program until it reaches main.

4 XSIM

To run your program on the simulator, enter the following command:

▶ xsim <binary>

To launch the simulator from within the debugger, at the GDB prompt enter the command:

▶ connect -s

You can then load your program onto the simulator in the same way as if using a development board.





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