

How to run XGDB commands from a file

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 XGDB commands from a file
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.

XGDB commands can be placed in a file, and the tool can be run in a mode which executes the given commands on startup. For example, compile the following code ensuring that debug is enabled (-g):

```
int f() {
    int i, j = 0;;
    for (i = 0; i < 5; ++i) {
        j += i;
    }
    return j;
}

int main() {
    int retval = f();
    return retval;
}
```

Now place the following in a file named *cmds.txt*:

```
connect -s
break f
run
finish
next
print retval
continue
quit
```

These commands, when passed to XGDB will cause the simulator to be used as the target. It will then break at function *f*. The *finish* statement will cause the function to be executed to completion, at which point you can step over the *retval* assignment then print the result. This can be run from the command line using the *-command* argument, and will produce the following result:

```
> xgdb --command=cnds.txt a.xe
GNU gdb (XGDB) 12.1.0 (build 7669)
...etc...
Breakpoint 1, f () at running_commands_from_a_file.xc:10
10   int i, j = 0;;
main () at running_commands_from_a_file.xc:18
18   int retval = f();
Value returned is $1 = 10
19   return retval;
$2 = 10

Program exited with code 012.
```



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