

Debugging with GDB and Valgrind

The purpose of this exercise session will be to discover the usage of debugging and manipulation of Gnu Debugger (GDB). You can either use GDB directly or through CLion.

We propose that you become bug hunters for us. In the attached programs several bugs are hidden that hopefully you shall find. The source code can be found in the repository of the class. Good luck, do not deceive us our young padawans !

Exercise 1: *Piece of cake*

- Compile the fpe code.
- Execute it. If all goes right it will crash.
- Debug the program
- Identify the line of buggy code.
- Find the bug.

Exercise 2: *Let's Rock*

- Compile the alloc code.
- Execute it.
- Why is the value of **a** not 1234 ?
- Debug the code
- Identify the line of buggy code (use the *watch* command).
- Find the bug.