

Advanced Programming

*#1 Setup and introduction
Tutorial on 29th October*

Agenda

- Compiler GCC
- Compiler ICC
- Setup of Eclipse IDE on
 - Windows
 - Ubuntu
 - MacOS
- C++ exercise

Compiler GCC

- Standard compiler for Unix-like OS
- Available by default on all Linux machines
- Implementations of GCC available on windows (MinGW, Cygwin, Code::Blocks)
- Supports all C++11 features (>4.8.1)
- Flag `-std=c++0x` (<4.6); `-std=c++11` (>4.7)
- Open source and free!!

Compiler ICC

- Made by Intel for optimal performance
 - X86-64
 - IA-32/64
- Available on Linuxclusters and supermuc
- ! On not-Intel chips it ruins performance
- Available for free
- command: `icc <source> -o <exec>`

Compilation

- Code -> object files -> executable

