

Exam Assignments 5

What is CMake

CMake is an open-source cross-platform tool for testing, packaging and build automation in software development. It's used with an interpreted scripting language that allows for general purpose computations.

Targets in CMake

Targets in CMake represent things to be built, executable files, libraries or custom targets. They are constructed for example using `add_executable` or `add_library` and can be modified using functions like `target_sources()`, `target_compile_options()`, `target_include_directories()` and `target_link_libraries()`.

General Optimization Procedure

Having written a **correct** solution for the problem that isn't efficient enough for the application, I would apply the following process:

1. Find the bottleneck in the program (e.g. using profilers).
2. Fix the bottleneck using parallelization, vectorization, better algorithm, etc.
3. If the program is efficient enough now, we're done. Otherwise, we return to step 1.