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Compile a single file under CMake project?

I'm developing a C++ project which is going to be enclosed on a bigger one.

I've seen that on the bigger project (is a Qt application and it's being generated from qmake) I am able to compile a single file from the linux command line, just entering the relative path to the specific file as an argument to make.

On the other hand, I'm using CMake for my own project. When I modify some code for a compilation unit and I have to modify its header file, I have to wait a long time to compile its dependencies and then its own source file. But there are some situations in which I would prefer to check whether the source code in the *.cc file is compilable without errors.

Is there a way to generate a Makefile from CMake the way qmake does this? Switching to qmake is not an option anymore.



Not out-of-the box. CMake does not expose those "internal" makefile rules in the main makefile.

You can do this only if you consider what kind of file structure CMake uses internally. You can e.g. for compiling a single .obj files using CMake generated makefiles call

 $\verb|make -f CMakeFiles/myProg.dir/build.make CMakeFiles/myProg.dir/main.cc.obj|\\$

when you have something like

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