



Always free to use through open source

Leverage CMake for Your Software Build Process

CMake is an open source, cross-platform family of tools designed to build, test, and package software. It manages the software build process in an operating system and uses compiler-independent configuration files. Unlike many cross-platform systems, CMake is designed to be used in conjunction with native build environments.

CMake has been the most trusted build platform since 2001 with over 2 million downloads a month. Here's why:



Known for its high speed



Generates a cache file to use with a graphical editor



Cost-effective, yet cutting-edge thanks to being open source



Supports static and dynamic library builds



Well-supported by a strong user community and Kitware



Works with in-place and out-of-place builds and can support multiple builds from a single source tree



Simple design that can be easily extended to support new features

CMake [has] proven to be an invaluable tool for us to build multiplatform code, track changes, run tests, and improve code quality.
- Netflix, CMake user

I highly recommend working with Kitware. If your organization needs help moving to CMake, it's the obvious choice.
- Advanced Micro Devices, Inc., CMake user



Looking to extend capabilities, improve workflows, tailor GUIs and more? Kitware offers CMake customization and advanced support.
Reach out to us at kitware@kitware.com



Scan to visit the CMake website



CMake CASE STUDY



Advanced Micro Devices Selects CMake to Make Improvements to AMD Radeon™ Software

Advanced Micro Devices, Inc. (AMD) focuses on modern computing, offering leadership high-performance and adaptive processor technologies. AMD Software: Adrenalin Edition is what makes DirectX®, Vulkan®, and OpenGL® operate on Radeon™ GPUs. The stack has existed since AMD's ATI days, so the codebase is immense with a long history. It also has its own build system, which is a huge burden. Consequently, AMD made the decision to fully convert the DirectX and Khronos UMDs (User Mode Drivers) to CMake due to an emphasis on cost savings, risk mitigation, and improving workflows.



This isn't just a technical quality of life feature; CMake helps your business.

Juan Ramos, Senior Software Development Engineer at Advanced Micro Devices, Inc.

AMD Software: Adrenalin Edition Built on CMake

New projects at AMD are written in CMake by default. Its flexibility to generate both Ninja and Visual Studio solutions made it an obvious favorite for Windows developers. CMake also makes sharing code with customers exceedingly easy. By switching to CMake, AMD can quickly deliver new platforms to its customers.

Favorite CMake Feature

One of the most important tools CMake provides to users is toolchain files. They provided AMD with the exact mechanisms it needed to be compatible with the old build system. That is not even mentioning the high quality of life features that result from CMake and Visual Studio. Another critical feature of CMake is its ability to generate code and provide custom build targets.

Takeaways

AMD highly recommends working with Kitware. If your organization needs help moving to CMake, it's the obvious choice. This isn't just a technical quality of life feature; CMake helps your business.



kitware

For information on how we can help integrate CMake into your build systems, send us a message at kitware@kitware.com.



Scan to read the full case study