
Subject: Automatically embedding Git version information during compilation in TheIDE

Posted by [nikitha_k](#) on Fri, 03 Jul 2026 11:34:12 GMT

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Hi everyone,

I am developing an application using U++ and building it with TheIDE on Debian.

I would like to automatically embed version information into my executable at compile time, similar to how the compiler provides the predefined macros `__DATE__` and `__TIME__`.

My goal is to include information such as:

- * Git tag (e.g. v1.4.0)
- * Git commit hash
- * Build date and time

so that the application can display it, for example:

App --version

App --git

App --build

or from within the application's About dialog.

I would prefer to embed this information during compilation so that the executable contains the version information even when Git is not available on the target system.

Is there a built-in mechanism in TheIDE to execute a command before compilation or define custom compile-time macros from the output of a command (for example, ``git describe --tags`` or ``git rev-parse --short HEAD``)?

If not, what is the recommended U++ approach for automatically embedding Git version information into an executable?

Thank you.
