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.