

ers

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Inspired by Cellie's answer, I investigated further and found a similar method that can be implemented using the regular interface of the Arduino IDE.

It appears that GitHub user Wackerbarth, while facing the very same problem, opened [an issue on the Arduino bug tracker](#):

It would be very useful to be able to add a recipe to the platform specification that is executed at the start of the build process. (pre-build)

In particular, my use case is to generate version strings which will be incorporated in the Rom image based on information extracted from a SCM repository.

He went on to submit [a pull request](#) for adding "hooks" to the build process, which made it to release 1.6.2. See the documentation on these [Pre and post build hooks](#).

Here is how you can use this feature for including git commit information into your program (tested on Arduino 1.8.5 / Ubuntu 16.04):

1. Save the following file under the name make-git-version, somewhere in your PATH, and make it executable:

```
#!/bin/bash

# Go to the source directory.
[ -n "$1" ] && cd "$1" || exit 1

# Build a version string with git.
version=$(git describe --tags --always --dirty 2> /dev/null)

# If this is not a git repository, fallback to the compilation date.
[ -n "$version" ] || version=$(date -l)

# Save this in git-version.h.
echo "#define GIT_VERSION \"$version\"" > $2/sketch/git-version.h
```

2. Locate the file named platform.txt in the Arduino installation directory (currently in arduino-1.8.5/hardware/arduino/avr for the AVR boards). In the same directory, create a file named platform.local.txt with the following content:

```
recipe.hooks.sketch.prebuild.1.pattern=make-git-version "{build.source.path}" "{build.path}"
```

3. In your sketch, include "git-version.h" and use it like so:

```
#include "git-version.h"
```

```
void setup() {  
  Serial.begin(9600);  
  Serial.println("This is version " GIT_VERSION);  
}
```

4. Create an empty file in your sketch directory named git-version.h.

Note that the git-version.h in the current directory is only needed for the first compilation. The real git-version.h will be in the temporary build directory.

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answered Apr 4, 2018 at 16:03



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