

# Q&A On GCC RTL Exception

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## At **BOTTOM** of announcement?!?!

*Bottom* of 4.5.0 release notes:

Other significant improvements Plugins It is now possible to extend the compiler without having to modify its source code. A new option `-fplugin=file.so` tells GCC to load the shared object file `file.so` and execute it as part of the compiler. The internal documentation describes the details on how plugins can interact with the compiler.

## The GCC RTL Exception Process.

- Initially drafted by me and fontana.
- Put forward to members of GCC SC and interested parties.
- Redrafted and revised many times by brett, karen, & me for 18 months.
- Final version is like GPLv3 ...
  - ... it's "legislation".

## Core Details

- GPLv2 had no real exception "subsystem".
- GPLv3 § 7 allows formally for "Additional Permissions".
  - RTL exception uses this.
- Primary goal: Solve FSF's concerns about plugins as work around to GPL.

## Basics of how it works

- If you mix (in *any* way) proprietary compilers w/ GCC ...
  - ... the RTL exception evaporates.
  - ... your output binaries *must* be GPL'd.
- If your “Compilation Processes” are all “Eligible” ...
  - ... which means they are all GPL-compatible ...
  - ... your output can be proprietary software (usual outcome).

## Take a look

- Take a look, and ask your questions.