

# Kludging The editor with The compiler

*Thursday 27 August 2020 08:30 (25 minutes)*

Emacs Lisp (Elisp) is the Lisp dialect used by the Emacs text editor family. GNU Emacs can currently execute Elisp code either interpreted or byte-interpreted after it has been compiled to byte-code. In this presentation I'll discuss the libgccjit based Elisp compiler implementation being integrated in Emacs. Though still a work in progress, this implementation is able to bootstrap a functional Emacs and compile all Emacs Elisp files, including the whole GNU Emacs Lisp Package Archive (ELPA). Native compiled Elisp shows an increase of performance ranging from ~2x up to ~40x with respect to the equivalent byte-code, measured over a set of small benchmarks.

## I agree to abide by the anti-harassment policy

I agree

**Primary author:** Mr CORALLO, Andrea (Arm)

**Presenter:** Mr CORALLO, Andrea (Arm)

**Session Classification:** GNU Tools Track

**Track Classification:** GNU Tools Track