“Build maintenance” refers to changes made to a build system as a software project evolves. It imposes a significant overhead on development costs, though little tool support for it exists. Formiga supports build maintenance by automating build changes as source code is updated, identifying build dependencies within a project, and assisting with build refactoring. In a controlled experiment, subjects completed build maintenance tasks in both an experimental condition using Formiga and a control condition without Formiga. Formiga was shown to significantly reduce the time required to perform build maintenance while increasing the correctness with which it can be performed.