

**NAME**

l3build – Checking and building packages

**SYNOPSIS**

l3build <command> [<options>] [<names>]

**DESCRIPTION**

The l3build system is a Lua script for building TeX packages, with particular emphasis on regression testing. It is written in cross-platform Lua code, so can be used by any modern TeX distribution with the texlua interpreter. A package for building with l3build can be written in any TeX dialect; its defaults are set up for LaTeX packages written in the DocStrip style.

The most commonly used l3build commands are:

|           |  |
|-----------|--|
| check     | Run all automated tests                      |
| clean     | Clean out directory tree                     |
| doc       | Typesets all documentation files             |
| install   | Installs files into the local texmf tree     |
| save      | Saves test validation log                    |
| tag       | Update release tags in files                 |
| uninstall | Uninstalls files from the local texmf tree   |
| unpack    | Unpacks the source files into the build tree |

**OPTIONS**

Various options apply

|                    |   |
|--------------------|---|
| --config -c        | Sets the config(s) used for running tests   |
| --date             | Sets the date to insert into sources        |
| --dry-run          | Dry run for install                         |
| --engine -e        | Sets the engine(s) to use for running test  |
| --epoch            | Sets the epoch for tests and typesetting    |
| --first            | Name of first test to run                   |
| --force -f         | Force tests to run if engine is not set up  |
| --halt-on-error -H | Stops running tests after the first failure |
| --last             | Name of last test to run                    |
| --pdf -p           | Check/save PDF files                        |
| --quiet -q         | Suppresses TeX output when unpacking        |

--rerun Skip setup: simply rerun tests

--shuffle

Shuffle order of tests

--texmfhome

Location of user texmf tree

## **BUGS**

## **AUTHOR**

The LaTeX Project (latex-team@latex-project.org)

Please log issues on the GitHub homepage: <https://github.com/latex3/l3build/issues>.

## **SEE ALSO**

See l3build.pdf for more details.