

**NAME**

l3build

**SYNOPSIS**

Usage l3build &lt;target&gt; [&lt;options&gt;] [&lt;names&gt;]

**DESCRIPTION**

The "l3build" module is designed to support the development of high-quality LaTeX code by providing:

- \* A unit testing system
- \* Automated typesetting of code sources
- \* A reliable packaging system for CTAN releases

The bundle consists of a Lua script to run the tasks and a ".tex" file which provides the testing environment. These were originally developed for supporting LaTeX development but are designed such that they can be readily used by others. Full documentation is provided.

**COMMANDS**

Valid targets are:

|           |                                              |
|-----------|----------------------------------------------|
| check     | Runs all automated tests                     |
| clean     | Cleans out directory tree                    |
| ctan      | Creates CTAN-ready archive                   |
| doc       | Typesets all documentation files             |
| install   | Installs files into the local texmf tree     |
| manifest  | Creates a manifest file                      |
| save      | Saves test validation log                    |
| tag       | Updates release tags in files                |
| uninstall | Uninstalls files from the local texmf tree   |
| unpack    | Unpacks the source files into the build tree |
| upload    | Sends archive to CTAN for public release     |

**OPTIONS**

Valid options are:

|             |                                                   |
|-------------|---------------------------------------------------|
| --config -c | Sets the config(s) used for running tests         |
| --date -d   | Sets the date to insert into sources              |
| --debug     | Runs target in debug mode                         |
| --dev       | Use the development LaTeX format                  |
| --dirty     | Skips cleaning up the test area                   |
| --dry-run   | Dry run for install or upload                     |
| --email     | Email address of CTAN uploader                    |
| --engine -e | Sets the engine(s) to use for running test        |
| --epoch     | Sets the epoch for tests and typesetting          |
| --file -F   | Takes the upload announcement from the given file |
| --first     | Name of first test to run                         |

|                     |                                                        |
|---------------------|--------------------------------------------------------|
| --full              | Installs all files                                     |
| --halt-on-error -H  | Stops running tests after the first failure            |
| --help -h           | Prints this message and exits                          |
| --last              | Name of last test to run                               |
| --message -m        | Text for upload announcement message                   |
| --quiet -q          | Suppresses TeX output when unpacking                   |
| --rerun             | Skips setup: simply reruns tests                       |
| --show-log-on-error | Shows the full log of the failure with 'halt-on-error' |
| --show-saves -S     | Shows the invocation to update failing .tlg files      |
| --shuffle           | Shuffles order of tests                                |
| --stdengine -s      | Run tests with the std engine (config dependent)       |
| --texmfhome         | Location of user texmf tree                            |
| --version           | Prints version information and exits                   |

**SEE ALSO**

Full manual available via 'texdoc l3build'.

Repository : <https://github.com/latex3/l3build>

Bug tracker : <https://github.com/latex3/l3build/issues>

**AUTHORS**

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