

NAME

l3build – Checking and building packages

SYNOPSIS

l3build <target> [<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 standard l3build 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

Various options apply

--config|-c Sets the config(s) used for running tests
--date Sets the date to insert into sources
--debug Runs target in debug mode
--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 help 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

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.