

## NAME

**mewa** – compiler compiler

## SYNOPSIS

**mewa** [OPTION]... INPUTFILE

## DESCRIPTION

**mewa** is a compiler compiler that builds a **Lua** module implementing a compiler described as a formal grammar in the file *INPUTFILE* with some **Lua** callbacks of functions implementing the type system and the code generation.

**-h, --help**

Print this usage.

**-v, --version**

Print the current version of **mewa**

**-V, --verbose**

Verbose debug output to stderr.

**-g, --generate-compiler**

Do generate a compiler as a **Lua** module described by the grammar in the input file.

**-o, --output= *file***

Write the output (parsing tables) to *file* instead of stdout.

**-b, --luabin= *luapath***

Specify *luapath* as path of the **Lua** interpreter in the header of generated scripts. Default is *"/usr/bin/lua"*.

**-d, --dbgout= *file***

Write the verbose debug output (productions,states,functions,etc.) to *file* instead of stdout.

**-t, --template= *file***

Use *file* content as template for the generated **Lua** module (option **-g/--generate-compiler**). The template contains the substitutes *%typesystem%* (name of the module implementing the type system), *%automaton%* ( Lua table with the generated automaton of the compiler), *%language%* (name of the language), *%luabin%* (path of the lua program executing the script, specified by option **-b/--luabin**) and *%cmdline%* (name of the module implementing the command-line parser).

## AUTHOR

Written by Patrick P. Frey (patrickpfrey@yahoo.com)

## REPORTING BUGS

Report bugs on <<https://github.com/patrickfrey/mewa/issues>>

## COPYRIGHT

Copyright © 2020 Patrick P. Frey.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

**SEE ALSO**

lua(1)

Full documentation and examples at: <<https://github.com/patrickfrey/mewa/blob/master/README.md>>