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.

−s, **−-generate-template**
> Do generate a template for your **Lua** module implementing the typesystem. Extracts all **Lua** function calls fromm the grammar and print their empty implementation stubs to the output. No debug output here. Be careful using this option. It is useful only after the initial definition of the grammar of your language. It overwrites previous definitions without merging with your edits in a previously generated version.

−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

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REPORTING BUGS

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

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SEE ALSO
> lua(1)

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