Package 'Rwbo'

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Title Run the 'Open-WBO' MaxSAT Solver

Version 0.1.1

Description Provides a wrapper for running the bundled 'Open-WBO' Maximum Satisfiability (MaxSAT) solver (<https://github.com/sat-group/open-wbo>). Users can pass command-line arguments to the solver and capture its output as a character string or file.

License GPL (>= 3)

RoxygenNote 7.3.2

Encoding UTF-8

Depends R (>= 4.0)

Suggests testthat (>= 3.0)

Config/testthat/edition 3

NeedsCompilation yes

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Contents

run_open_wbo *Run open-wbo_static*

Description

Run the bundled ‘open-wbo_static‘ binary with user-supplied parameters.

Usage

```
run_open_wbo(args = character())
```

Arguments

args	Character vector of arguments passed to ‘open-wbo_static‘.

Details

‘args‘ is passed directly to the ‘open-wbo_static‘ command-line tool, so supply the path to a WCNF file along with any solver flags you want to enable. To see the full list of supported options for your bundled binary, run ‘run_open_wbo("–help")‘. The help text is emitted on stderr, so it appears in your console but is not returned by ‘run_open_wbo()‘.

Common solver options include toggles such as ‘-forceunsat‘/‘-no-forceunsat‘, ‘-adapt‘/‘-no-adapt‘, ‘-print-model‘/‘-no-print-model‘, and parameter settings like ‘-algorithm <int>‘, ‘-cpu-lim <int>‘, ‘-mem-lim <int>‘, and ‘-verbosity <int>‘.

Value

Character string containing the output from ‘open-wbo_static‘.

Examples

```
wcnf_file <- tempfile(fileext = ".wcnf")
writeLines(c(
  "p wcnf 1 2 2",
  "2 1 0",
  "1 -1 0"
), wcnf_file)
run_open_wbo(args = wcnf_file)
```

Index