# Package 'Rwbo'

May 7, 2026

**Title** Run the 'Open-WBO' MaxSAT Solver

**Version** 0.1.2

**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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**Repository** CRAN

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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)
```

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