Package ‘ompr.roi’

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Type Package
Title A Solver for ‘ompr’ that Uses the R Optimization Infrastructure (‘ROI’)
Version 0.8.0
Description A solver for ‘ompr’ based on the R Optimization Infrastructure (‘ROI’).
The package makes all solvers in ‘ROI’ available to solve ‘ompr’ models. Please see the
‘ompr’ website <https://dirkschumacher.github.io/ompr> and package docs for more information
and examples on how to use it.
License GPL-3
LazyData TRUE
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as_ROI_model  

**Export to ROI::OP**

**Description**

This function can be used to transform an ompr model to a ROI::OP object.

**Usage**

```r
as_ROI_model(model)
```

**Arguments**

- `model`  an ompr model

**Value**

an object of S3 class `ROI::OP`

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ompr.roi  

**A Solver for 'ompr' that Uses the R Optimization Infrastructure ('ROI')**

**Description**

A solver for 'ompr' based on the R Optimization Infrastructure ('ROI'). The package makes all solvers in 'ROI' available to solve 'ompr' models. Please see the 'ompr' website [https://dirkschumacher.github.io/ompr](https://dirkschumacher.github.io/ompr) and package docs for examples on how to use it.

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with_ROI  

**Configures a solver based on 'ROI'**

**Description**

This function makes all solvers in the R package 'ROI' available to solve 'ompr' models.

**Usage**

```r
with_ROI(solver, ...)
```

**Arguments**

- `solver`  the 'ROI' solver name (character vector of length 1)
- `...`  optional parameters passed to ROI_solve

Note: it does only support column duals. It currently does not export row duals.
**with ROI**

**Value**

a function: Model -> Solution that can be used together with `solve_model`.

**References**


**Examples**

```r
library(magrittr)
library(ompr)
library(ROI)
library(ROI.plugin.glpk)
add_variable(MIPModel(), x, type = "continuous") %>%
set_objective(x, sense = "max") %>%
add_constraint(x <= 5) %>%
solve_model(with_ROI(solver = "glpk", verbose = TRUE))
```
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