Package 'ROI.plugin.highs'

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Version 1.0-3			
Title 'HiGHS' Plugin for the 'R' Optimization Infrastructure Description Enhances the 'R' Optimization Infrastructure ('ROI') package with the quadratic solver 'HiGHS'. More information about 'HiGHS' can be found at https://highs.dev . Imports methods, ROI (>= 1.0-0), highs License GPL-2 GPL-3 NeedsCompilation no Author Florian Schwendinger [aut, cre] Maintainer Florian Schwendinger <florianschwendinger@gmx.at> Repository CRAN Date/Publication 2023-07-06 15:10:07 UTC</florianschwendinger@gmx.at>			
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		Example-1	Linear Problem 1
		Description	
			$maximize \ 2x_1 + 4x_2 + 3x_3$
			$subject\ to:$
			$3x_1 + 4x_2 + 2x_3 \le 60$
			$2x_1 + x_2 + 2x_3 \le 40$
			$x_1 + 3x_2 + 2x_3 \le 80$
	$x_1, x_2, x_3 \ge 0$		

Example-1

Examples

```
Sys.setenv(ROI_LOAD_PLUGINS = FALSE)
library("ROI")
library("ROI.plugin.highs")
mat <- matrix(c(3, 4, 2,
                2, 1, 2,
                1, 3, 2), nrow=3, byrow=TRUE)
x \leftarrow OP(objective = c(2, 4, 3),
        constraints = L_constraint(L = mat,
                                   dir = c("<=", "<=", "<="),
                                    rhs = c(60, 40, 80),
        maximum = TRUE)
opt <- ROI_solve(x, solver = "highs")</pre>
opt
## Optimal solution found.
## The objective value is: 7.666667e+01
solution(opt)
## [1] 0.000000 6.666667 16.666667
```

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