GLPSOL

NAME

GLPSOL - GLPK linear programming/MIP solver

SYNOPSIS

glpsol [options...] filename

DESCRIPTION

General options:

- --glp read LP/MIP problem in GNU LP format
- --mps read LP/MIP problem in fixed MPS format (default)
- --freemps

read LP/MIP problem in free MPS format

--cpxlp

read LP/MIP problem in CPLEX LP format

--math

read LP/MIP model written in GNU MathProg modeling language

-m filename, --model filename

read model section and optional data section from filename (the same as --math)

-d filename, --data filename

read data section from filename (for **—math** only); if data section follows model section in the same file, this option is ignored

-y filename, --display filename

send display output to filename (for --math only); by default the output is sent to stdout

- --min minimization
- --max maximization
- --scale

scale the problem (default)

--noscale

do not scale the problem

--simplex

use simplex method (default)

--interior

use interior point method (for pure LP only)

-o filename, --output filename

write solution to filename in plain text format

--bounds filename

write sensitivity bounds to filename in plain text format (LP only)

--tmlim nnn

limit solution time to nnn seconds

--memlim nnn

limit available memory to nnn megabytes

--check

do not solve the problem, check input data only

--name probname

change problem name to probname

--plain

use plain names of rows and columns (default)

--orig try using original names of rows and columns (default for --mps)

--wglp filename write problem to filename in GNU LP format --wmps filename write problem to filename in fixed MPS format --wfreemps filename write problem to filename in free MPS format --wcpxlp filename write problem to filename in CPLEX LP format write problem to filename in plain text format -h, --help display this help information and exit -v, --version display program version and exit **Options specific to simplex method:** use standard initial basis of all slacks **--adv** use advanced initial basis (default) --bas filename read initial basis from filename in MPS format --steep use steepest edge technique (default) --nosteep use standard "textbook" pricing --relax use Harris' two-pass ratio test (default) --norelax use standard "textbook" ratio test --presol use presolver (default; assumes **--scale** and **--adv**) --nopresol do not use presolver --wbas filename write final basis to filename in MPS format **Options specific to MIP:** --nomip consider all integer variables as continuous (allows solving MIP as pure LP) -- first branch on first integer variable **--last** branch on last integer variable --drtom branch using heuristic by Driebeck and Tomlin (default) --mostf branch on most fractional variable --dfs backtrack using depth first search --bfs backtrack using breadth first search

backtrack using the best projection heuristic (default)

backtrack using node with best local bound

--bestp

--bestb

REPORTING BUGS

Please report bugs to <bug-glpk@gnu.org>.

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SEE ALSO

/usr/share/doc/glpk/

Documentation about GLPK, its C API, the GNU MathProg modeling language, and MPS and LP file formats in PostScript format.

See also the official GNU webpage dedicated to GLPK at $\frac{\mbox{\ensuremath{\text{chttp://www.gnu.org/soft-ware/glpk/glpk.html}}}{\mbox{\ensuremath{\text{chttp://www.gnu.org/soft-ware/glpk/glpk.html}}}}$

GLPSOL, Version 4.8 Jan 2005 3

TSPSOL

NAME

TSPSOL - Traveling Salesperson Problem solver from GLPK

SYNOPSIS

tspsol [options...] tsp-file

DESCRIPTION

Options:

-o filename, --output filename

write solution to filename in plain text format

-t, --trace

produce detailed output

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Please report bugs to <bug-glpk@gnu.org>.

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SEE ALSO

glpsol(1)

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TSPSOL, Version 4.8 Jan 2005