Installation Instructions

- 1. build libMTPFSolver.so
- >> make
- 2. run test script
- >> make test

API Reference

MTPFSolver(int R, int C) Initialize the solver with RxC routing grids. int R: number of rows. int C: number of columns. void setTimeLimit(double timeLimit) Set the total time limit for the solver to run. double timeLimit: time limit (s). void setGapLimit(double gap) Set the gap limit for the solver. double gap: gap limit (0.0~1.0) bool addObstacle(int x, int y) Add an obstacle at (x, y). Returns false on failure. int x: row number. int y: column number. bool delObstacle(int x, int y) Remove the obstacle at (x, y). Returns false on failure. row number. int x: column number. int y: bool addTerminal(int x, int y, int t) Add a terminal at (x, y) of type t. Returns false on failure. int x row number. int y: column number. Type of the terminal. int t bool delTerminal(int x, int y) Remove the terminal at (x, y). Returns false on failure.

bool solve()

int x:

row number.

int y: column number.

Solve the problem and save the result. Returns false on failure.

void clear()
Clear the result.

const std::vector<std::vector<int> >& getResult()
 Get the result. Will run solve automatically if there is no result.

const std::vector<std::vector<int> >& getItems()
 Get the RxC routing grids with terminals and obstacles.