```
"E:\1 □□□□\3 □□□□□\1 □□□□□□\1 □□□□□□□□\1_□□□□□□_□□□□\1_LW _□□□□\4 □□□□\3 python_code\1 exzample\2 □□□□□□\9 Code for this paper\Scripts\python.exe" "D:\Python\Pycharm\setroute\PyCharm Community Edition 2021.2.3\plugins\python-ce\helpers\pydev\pydevconsole.py" --mode=client --port=37162

import sys; print('Python %s on %s' % (sys.version, sys.platform))
sys.path.extend(['E:\\1 □□□□\\3 □□□□□\\1 □□□□□□\\1 □□□□□□□□\\1_□□□□□□_□□□□\\1_LW _□□□□\\4 □□□□\\3 python_code\\9 Code for this paper', 'E:/1 □□□□/3 □□□□□/1 □□□□□□/1 □□□□□□□□/1_□□□□□□_□□□□/1_LW _□□□□/4 □□□□/3 python_code/9 Code for this paper'])

PyDev console: starting.

Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
>>> runfile('E:/1 □□□□/3 □□□□□/1 □□□□□□/1 □□□□□□□□/1_□□□□□□_□□□□/1_LW _□□□□/4 □□□□/3 python_code/9 Code for this paper/main_RO_CCG.py', wdir='E:/1 □□□□/3 □□□□□/1 □□□□□□/1 □□□□□□□□/1_□□□□□□_□□□□/1_LW _□□□□/4 □□□□/3 python_code/9 Code for this paper')
Backend TkAgg is interactive backend. Turning interactive mode on.
Waiting 5s.....
Set parameter MIPGap to value 1e-10
Gurobi Optimizer version 10.0.2 build v10.0.2rc0 (win64)

CPU model: 11th Gen Intel(R) Core(TM) i7-11370H @ 3.30GHz, instruction set [SSE2|AVX|AVX2|AVX512]
Thread count: 4 physical cores, 8 logical processors, using up to 8 threads

Optimize a model with 602799 rows, 52642 columns and 1675285 nonzeros
Model fingerprint: 0xc5c8e864
Variable types: 1 continuous, 52641 integer (52605 binary)
Coefficient statistics:
  Matrix range     [1e+00, 1e+10]
  Objective range  [1e+00, 2e+01]
  Bounds range     [1e+00, 1e+00]
  RHS range        [1e+00, 2e+10]
Warning: Model contains large matrix coefficients
Warning: Model contains large rhs
         Consider reformulating model or setting NumericFocus parameter
         to avoid numerical issues.
Presolve removed 381477 rows and 26559 columns (presolve time = 5s) ...
Presolve removed 492685 rows and 37081 columns (presolve time = 10s) ...
Presolve removed 526889 rows and 37081 columns
Presolve time: 11.28s
Presolved: 75910 rows, 15561 columns, 248987 nonzeros
Variable types: 0 continuous, 15561 integer (15534 binary)

Deterministic concurrent LP optimizer: primal and dual simplex (primal and dual model)
Showing first log only...

Root relaxation presolved: 15561 rows, 91471 columns, 264548 nonzeros


Root simplex log...

Iteration    Objective       Primal Inf.    Dual Inf.      Time
       0    8.4600000e+02   0.000000e+00   1.036000e+03     12s
Concurrent spin time: 0.00s

Solved with dual simplex (primal model)

Root relaxation: objective 8.460000e+02, 2529 iterations, 0.61 seconds (0.40 work units)

    Nodes    |    Current Node    |     Objective Bounds      |     Work
 Expl Unexpl |  Obj  Depth IntInf | Incumbent    BestBd   Gap | It/Node Time

     0     0  846.00000    0   19          -  846.00000      -     -   13s
H    0     0                3806.0000000  846.00000  77.8%     -   13s
     0     0  846.00000    0  174 3806.00000  846.00000  77.8%     -   14s
     0     0  846.00000    0  168 3806.00000  846.00000  77.8%     -   14s
H    0     0                1786.0000000  846.00000  52.6%     -   15s
H    0     0                1206.0000000  846.00000  29.9%     -   15s
     0     0  846.00000    0  154 1206.00000  846.00000  29.9%     -   15s
     0     0  846.00000    0  153 1206.00000  846.00000  29.9%     -   15s
     0     0  846.00000    0   11 1206.00000  846.00000  29.9%     -   17s
     0     0  846.00000    0   20 1206.00000  846.00000  29.9%     -   17s
     0     0  846.00000    0   82 1206.00000  846.00000  29.9%     -   18s
     0     0  846.00000    0   16 1206.00000  846.00000  29.9%     -   20s
     0     0  846.00000    0   19 1206.00000  846.00000  29.9%     -   20s
     0     0  846.00000    0   20 1206.00000  846.00000  29.9%     -   20s
     0     0  846.00000    0   20 1206.00000  846.00000  29.9%     -   21s
     0     2  846.00000    0   20 1206.00000  846.00000  29.9%     -   23s
     5     8  846.00000    3  121 1206.00000  846.00000  29.9%  1698   25s
H   30    32                1106.0000000  846.00000  23.5%   478   26s
H   66    67                 846.0000000  846.00000  0.00%   618   29s

Cutting planes:
  Cover: 162
  Implied bound: 1841
  Clique: 7
```

```
  MIR: 41
  StrongCG: 24
  GUB cover: 5
  Zero half: 1
  RLT: 5
  Relax-and-lift: 644

Explored 80 nodes (70377 simplex iterations) in 29.08 seconds (47.23 work units)
Thread count was 8 (of 8 available processors)

Solution count 5: 846 1106 1206 ... 3806

Optimal solution found (tolerance 1.00e-10)
Best objective 8.460000000000e+02, best bound 8.460000000000e+02, gap 0.0000%
Set parameter MIPGap to value 1e-08
Gurobi Optimizer version 10.0.2 build v10.0.2rc0 (win64)

CPU model: 11th Gen Intel(R) Core(TM) i7-11370H @ 3.30GHz, instruction set [SSE2|AVX|AVX2|AVX512]
Thread count: 4 physical cores, 8 logical processors, using up to 8 threads

Optimize a model with 2481576 rows, 1955335 columns and 17235895 nonzeros
Model fingerprint: 0xc019af1b
Variable types: 963295 continuous, 992040 integer (985965 binary)
Coefficient statistics:
  Matrix range     [1e-01, 1e+10]
  Objective range  [6e-05, 5e+01]
  Bounds range     [1e+00, 8e+01]
  RHS range        [8e-01, 1e+10]
Warning: Model contains large matrix coefficients
Warning: Model contains large rhs
         Consider reformulating model or setting NumericFocus parameter
         to avoid numerical issues.
Presolve removed 2478775 rows and 1954283 columns (presolve time = 5s) ...
Presolve removed 2478775 rows and 1954283 columns
Presolve time: 5.04s
Presolved: 2801 rows, 1052 columns, 7492 nonzeros
Variable types: 5 continuous, 1047 integer (623 binary)
Found heuristic solution: objective 3368.0500186
Found heuristic solution: objective 3454.0500186

Root simplex log...

Iteration    Objective       Primal Inf.    Dual Inf.      Time
       0    7.9102796e+03   2.792431e+03   0.000000e+00      6s
     802    4.6850500e+03   0.000000e+00   0.000000e+00      6s

Root relaxation: objective 4.685050e+03, 802 iterations, 0.00 seconds (0.01 work units)

    Nodes    |    Current Node    |     Objective Bounds      |     Work
 Expl Unexpl |  Obj  Depth IntInf | Incumbent    BestBd   Gap | It/Node Time

     0     0 4685.05002    0   27 3454.05002 4685.05002  35.6%     -    6s
H    0     0                       4658.0500186 4685.05002  0.58%     -    6s
H    0     0                       4678.0500186 4685.05002  0.15%     -    6s
*    0     0               0       4685.0500186 4685.05002  0.00%     -    6s

Cutting planes:
  Learned: 6
  Mod-K: 1

Explored 1 nodes (1211 simplex iterations) in 6.64 seconds (7.81 work units)
Thread count was 8 (of 8 available processors)

Solution count 5: 4685.05 4678.05 4658.05 ... 3368.05

Optimal solution found (tolerance 1.00e-08)
Best objective 4.685050018628e+03, best bound 4.685050018628e+03, gap 0.0000%
SP is solved
SP's optimal solution is'□4685

  Itr = 0
Collect_LB =   [846.0]
Collect_UB =   [10216.100037255637]
Collect_Hua =   [0.0]
Collect_SPObjVal =   [4685.050018627819]
Collect_MPObjValNHua =   [846.0]


Set parameter MIPGap to value 0.05
Gurobi Optimizer version 10.0.2 build v10.0.2rc0 (win64)

CPU model: 11th Gen Intel(R) Core(TM) i7-11370H @ 3.30GHz, instruction set [SSE2|AVX|AVX2|AVX512]
Thread count: 4 physical cores, 8 logical processors, using up to 8 threads

```

```
Optimize a model with 1145710 rows, 303661 columns and 3380490 nonzeros
Model fingerprint: 0xb6c4ccaa
Variable types: 1 continuous, 303660 integer (292257 binary)
Coefficient statistics:
  Matrix range     [1e-01, 1e+10]
  Objective range  [1e+00, 2e+01]
  Bounds range     [1e+00, 1e+00]
  RHS range        [1e+00, 2e+10]
Warning: Model contains large matrix coefficients
Warning: Model contains large rhs
         Consider reformulating model or setting NumericFocus parameter
         to avoid numerical issues.
Presolve removed 941260 rows and 280166 columns (presolve time = 5s) ...
Presolve removed 962161 rows and 281637 columns (presolve time = 10s) ...
Presolve removed 1053459 rows and 290518 columns
Presolve time: 13.04s
Presolved: 92251 rows, 13143 columns, 282153 nonzeros
Variable types: 1 continuous, 13142 integer (10919 binary)

Deterministic concurrent LP optimizer: primal and dual simplex (primal and dual model)
Showing first log only...

Root relaxation presolved: 13143 rows, 105394 columns, 295296 nonzeros


Root simplex log...

Iteration    Objective       Primal Inf.    Dual Inf.      Time
       0    5.5310500e+03   0.000000e+00   1.698640e+04     14s
Concurrent spin time: 0.58s

Solved with dual simplex (primal model)

Root relaxation: objective 5.531050e+03, 6851 iterations, 1.58 seconds (1.99 work units)

    Nodes    |    Current Node    |     Objective Bounds      |     Work
 Expl Unexpl |  Obj  Depth IntInf | Incumbent    BestBd   Gap | It/Node Time

     0     0 5531.05002    0  358          - 5531.05002      -     -   17s
     0     0 5531.05002    0 1136          - 5531.05002      -     -   21s
     0     0 5531.05002    0 1036          - 5531.05002      -     -   21s
     0     0 5531.05002    0 1077          - 5531.05002      -     -   24s
     0     0 5531.05002    0 1069          - 5531.05002      -     -   24s
     0     0 5531.05002    0  493          - 5531.05002      -     -   33s
     0     0 5531.05002    0  490          - 5531.05002      -     -   34s
     0     0 5531.05002    0  521          - 5531.05002      -     -   35s
     0     0 5531.05002    0  405          - 5531.05002      -     -   42s
     0     0 5531.05002    0  412          - 5531.05002      -     -   42s
     0     0 5531.05002    0  427          - 5531.05002      -     -   43s
     0     0 5531.05002    0  487          - 5531.05002      -     -   50s
     0     0 5531.05002    0  471          - 5531.05002      -     -   50s
     0     0 5531.05002    0  365          - 5531.05002      -     -   52s
H    0     0                 5531.0500186 5531.05002  0.00%     -   57s
     0     0 5531.05002    0  365 5531.05002 5531.05002  0.00%     -   57s

Cutting planes:
  Learned: 8
  Gomory: 3
  Cover: 202
  Implied bound: 96
  Clique: 4155
  MIR: 142
  StrongCG: 23
  Flow cover: 8
  GUB cover: 29
  Zero half: 21
  RLT: 64
  Relax-and-lift: 123
  BQP: 39

Explored 1 nodes (138344 simplex iterations) in 57.79 seconds (178.16 work units)
Thread count was 8 (of 8 available processors)

Solution count 1: 5531.05

Optimal solution found (tolerance 5.00e-02)
Best objective 5.531050018628e+03, best bound 5.531050018628e+03, gap 0.0000%
Set parameter MIPGap to value 1e-08
Gurobi Optimizer version 10.0.2 build v10.0.2rc0 (win64)

CPU model: 11th Gen Intel(R) Core(TM) i7-11370H @ 3.30GHz, instruction set [SSE2|AVX|AVX2|AVX512]
Thread count: 4 physical cores, 8 logical processors, using up to 8 threads

Optimize a model with 2481576 rows, 1955335 columns and 17235895 nonzeros
```

```
Model fingerprint: 0x5de226fe
Variable types: 963295 continuous, 992040 integer (985965 binary)
Coefficient statistics:
  Matrix range     [1e-01, 1e+10]
  Objective range  [6e-05, 5e+01]
  Bounds range     [1e+00, 8e+01]
  RHS range        [8e-01, 1e+10]
Warning: Model contains large matrix coefficients
Warning: Model contains large rhs
         Consider reformulating model or setting NumericFocus parameter
         to avoid numerical issues.
Presolve removed 2476269 rows and 1953602 columns
Presolve time: 4.83s
Presolved: 5307 rows, 1733 columns, 14084 nonzeros
Variable types: 8 continuous, 1725 integer (992 binary)
Found heuristic solution: objective 3583.0500186

Root simplex log...

Iteration    Objective       Primal Inf.    Dual Inf.      Time
       0    1.1033280e+04   4.859916e+03   0.000000e+00      6s
    1731    5.3071929e+03   0.000000e+00   0.000000e+00      6s

Root relaxation: objective 5.307193e+03, 1731 iterations, 0.02 seconds (0.02 work units)

    Nodes    |    Current Node    |     Objective Bounds      |     Work
 Expl Unexpl |  Obj  Depth IntInf | Incumbent    BestBd   Gap | It/Node Time

H    0     0                    5307.1928758 15552.7410   193%     -    6s
     0     0        -    0      5307.19288 5307.19288  0.00%     -    6s

Explored 1 nodes (2433 simplex iterations) in 6.34 seconds (7.44 work units)
Thread count was 8 (of 8 available processors)

Solution count 2: 5307.19 3583.05

Optimal solution found (tolerance 1.00e-08)
Best objective 5.307192875771e+03, best bound 5.307192875771e+03, gap 0.0000%
SP is solved
SP's optimal solution is'□5307

  Itr = 1
Collect_LB =   [846.0, 5531.050018627819]
Collect_UB =   [10216.100037255637, 6153.192875770674]
Collect_Hua =   [0.0, 4685.050018627819]
Collect_SPObjVal =   [4685.050018627819, 5307.192875770674]
Collect_MPObjValNHua =   [846.0, 846.0]


Set parameter MIPGap to value 0.05
Gurobi Optimizer version 10.0.2 build v10.0.2rc0 (win64)

CPU model: 11th Gen Intel(R) Core(TM) i7-11370H @ 3.30GHz, instruction set [SSE2|AVX|AVX2|AVX512]
Thread count: 4 physical cores, 8 logical processors, using up to 8 threads

Optimize a model with 1681912 rows, 323344 columns and 5078950 nonzeros
Model fingerprint: 0xe0f42ce4
Variable types: 1 continuous, 323343 integer (300573 binary)
Coefficient statistics:
  Matrix range     [1e-01, 1e+10]
  Objective range  [1e+00, 2e+01]
  Bounds range     [1e+00, 1e+00]
  RHS range        [1e+00, 2e+10]
Warning: Model contains large matrix coefficients
Warning: Model contains large rhs
         Consider reformulating model or setting NumericFocus parameter
         to avoid numerical issues.
Presolve removed 1428696 rows and 294424 columns (presolve time = 5s) ...
Presolve removed 1478678 rows and 297890 columns (presolve time = 16s) ...
Presolve removed 1551821 rows and 305450 columns (presolve time = 20s) ...
Presolve removed 1551821 rows and 305450 columns
Presolve time: 20.07s
Presolved: 130091 rows, 17894 columns, 423432 nonzeros
Variable types: 1 continuous, 17893 integer (13554 binary)

Deterministic concurrent LP optimizer: primal and dual simplex (primal and dual model)
Showing first log only...

Root relaxation presolved: 17894 rows, 147985 columns, 441326 nonzeros


Root simplex log...

Iteration    Objective       Primal Inf.    Dual Inf.      Time
```

```
      0    6.1710500e+03   0.000000e+00   3.183655e+04     21s
  18131    6.1710500e+03   0.000000e+00   0.000000e+00     23s
  18131    6.1710500e+03   0.000000e+00   0.000000e+00     23s
Concurrent spin time: 0.61s

Solved with primal simplex

Root relaxation: objective 6.171050e+03, 18131 iterations, 2.86 seconds (3.17 work units)
Total elapsed time = 26.60s

     Nodes    |    Current Node    |     Objective Bounds      |     Work
  Expl Unexpl |  Obj  Depth IntInf | Incumbent    BestBd   Gap | It/Node Time

     0     0 6171.05002    0  831          - 6171.05002      -     -   30s
     0     0 6171.05002    0  811          - 6171.05002      -     -   31s
     0     0 6171.05002    0 1336          - 6171.05002      -     -   38s
     0     0 6171.05002    0 1257          - 6171.05002      -     -   46s
     0     0 6171.05002    0 1236          - 6171.05002      -     -   46s
     0     0 6171.05002    0  484          - 6171.05002      -     -   60s
     0     0 6171.05002    0  809          - 6171.05002      -     -   63s
     0     0 6171.05002    0  570          - 6171.05002      -     -   72s
     0     0 6171.05002    0  701          - 6171.05002      -     -   74s
     0     0 6171.05002    0  571          - 6171.05002      -     -   82s
     0     0 6171.05002    0  556          - 6171.05002      -     -   82s
     0     0 6171.05002    0  816          - 6171.05002      -     -   87s
     0     0 6171.05002    0  647          - 6171.05002      -     -   99s
     0     0 6171.05002    0  538          - 6171.05002      -     -   99s
     0     0 6171.05002    0  513          - 6171.05002      -     -  102s
H    0     0                    6171.0500186 6171.05002  0.00%     -  112s
     0     0 6171.05002    0  513 6171.05002 6171.05002  0.00%     -  112s

Cutting planes:
  Learned: 12
  Gomory: 2
  Cover: 1113
  Implied bound: 178
  Clique: 1994
  MIR: 177
  StrongCG: 156
  Flow cover: 25
  GUB cover: 758
  Zero half: 46
  RLT: 96
  Relax-and-lift: 421
  BQP: 20
  PSD: 1

Explored 1 nodes (245471 simplex iterations) in 112.96 seconds (370.52 work units)
Thread count was 8 (of 8 available processors)

Solution count 1: 6171.05

Optimal solution found (tolerance 5.00e-02)
Best objective 6.171050018628e+03, best bound 6.171050018628e+03, gap 0.0000%
Warning: linear constraint 609509 and linear constraint 1145711 have the same name "ConSP25_1[0,0]"
Set parameter MIPGap to value 1e-08
Gurobi Optimizer version 10.0.2 build v10.0.2rc0 (win64)

CPU model: 11th Gen Intel(R) Core(TM) i7-11370H @ 3.30GHz, instruction set [SSE2|AVX|AVX2|AVX512]
Thread count: 4 physical cores, 8 logical processors, using up to 8 threads

Optimize a model with 2481576 rows, 1955335 columns and 17235895 nonzeros
Model fingerprint: 0x19369fd1
Variable types: 963295 continuous, 992040 integer (985965 binary)
Coefficient statistics:
  Matrix range     [1e-01, 1e+10]
  Objective range  [6e-05, 5e+01]
  Bounds range     [1e+00, 8e+01]
  RHS range        [8e-01, 1e+10]
Warning: Model contains large matrix coefficients
Warning: Model contains large rhs
         Consider reformulating model or setting NumericFocus parameter
         to avoid numerical issues.
Presolve removed 2476314 rows and 1953607 columns
Presolve time: 4.78s
Presolved: 5262 rows, 1728 columns, 14007 nonzeros
Variable types: 8 continuous, 1720 integer (992 binary)

Root simplex log...

Iteration    Objective       Primal Inf.    Dual Inf.      Time
       0    1.1305452e+04   5.567298e+03   0.000000e+00      6s
    1528    5.3611929e+03   0.000000e+00   0.000000e+00      6s

```

```
Root relaxation: objective 5.361193e+03, 1528 iterations, 0.02 seconds (0.02 work units)

    Nodes    |    Current Node    |     Objective Bounds      |     Work
 Expl Unexpl |  Obj  Depth IntInf | Incumbent    BestBd   Gap | It/Node Time

*    0     0               0    5361.1928758 5361.19288  0.00%     -    6s

Explored 1 nodes (2319 simplex iterations) in 6.34 seconds (7.37 work units)
Thread count was 8 (of 8 available processors)

Solution count 1: 5361.19

Optimal solution found (tolerance 1.00e-08)
Best objective 5.361192875771e+03, best bound 5.361192875771e+03, gap 0.0000%
SP is solved
SP's optimal solution is'□5361

  Itr = 2
Collect_LB =   [846.0, 5531.050018627819, 6171.050018627817]
Collect_UB =   [10216.100037255637, 6153.192875770674, 6153.192875770674]
Collect_Hua =   [0.0, 4685.050018627819, 5307.192875770674]
Collect_SPObjVal =   [4685.050018627819, 5307.192875770674, 5361.192875770674]
Collect_MPObjValNHua =   [846.0, 846.0, 863.8571428571431]


   Reach the termination conditions, stop iteration
   Values adopted from the judgeCount's th iteration, and Itr = {2}, judgeCount = {1}

~~~~~~~~~~judgeCount = 1, SPObj_SPF = 5307.192875770674
Vessel i: 0:      pi: 0-7,      ai-di: 6-22,      gi_SP-gpi_SP: 0.000000-0.000000,      ai_SP-di: 6-22,      taoi-deltai: 6-21,      taoPi_SP-deltaPi_SP: 6-21,      betaNi: 15,      bi: 15
Vessel i: 1:      pi: 0-7,      ai-di: 48-75,      gi_SP-gpi_SP: 0.000000-0.000000,      ai_SP-di: 48-75,      taoi-deltai: 48-74,      taoPi_SP-deltaPi_SP: 50-74,      betaNi: 26,      bi: 26
Vessel i: 2:      pi: 14-21,      ai-di: 25-52,      gi_SP-gpi_SP: 0.000000-0.000000,      ai_SP-di: 25-52,      taoi-deltai: 25-51,      taoPi_SP-deltaPi_SP: 25-51,      betaNi: 26,      bi: 26
Vessel i: 3:      pi: 14-19,      ai-di: 14-21,      gi_SP-gpi_SP: 0.000000-0.000000,      ai_SP-di: 14-21,      taoi-deltai: 14-20,      taoPi_SP-deltaPi_SP: 14-20,      betaNi: 6,      bi: 6
Vessel i: 4:      pi: 7-14,      ai-di: 6-30,      gi_SP-gpi_SP: 0.000000-0.000000,      ai_SP-di: 6-30,      taoi-deltai: 6-29,      taoPi_SP-deltaPi_SP: 6-29,      betaNi: 23,      bi: 23
Vessel i: 5:      pi: 7-14,      ai-di: 37-62,      gi_SP-gpi_SP: 0.821429-0.400000,      ai_SP-di: 41-62,      taoi-deltai: 42-55,      taoPi_SP-deltaPi_SP: 42-55,      betaNi: 13,      bi: 13
Vessel i: 6:      pi: 14-19,      ai-di: 2-21,      gi_SP-gpi_SP: 0.750000-0.000000,      ai_SP-di: 8-21,      taoi-deltai: 5-11,      taoPi_SP-deltaPi_SP: 8-11,      betaNi: 6,      bi: 6
Vessel i: 7:      pi: 28-34,      ai-di: 7-27,      gi_SP-gpi_SP: 0.400000-1.000000,      ai_SP-di: 11-27,      taoi-deltai: 9-14,      taoPi_SP-deltaPi_SP: 11-14,      betaNi: 5,      bi: 5
Vessel i: 8:      pi: 14-21,      ai-di: 51-71,      gi_SP-gpi_SP: 0.428571-1.000000,      ai_SP-di: 54-71,      taoi-deltai: 54-59,      taoPi_SP-deltaPi_SP: 54-59,      betaNi: 5,      bi: 5

round LB =   [846, 5531, 6171]
round UB =   [10216, 6153, 6153]
round Hua =   [0, 4685, 5307]
round SPObjVal =   [4685, 5307, 5361]
round MPObjValNHua =   [846, 846, 864]

Time: 667.000000
```