```
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=41292
   import sys; print('Python %s on %s' % (sys.version, sys.platform))
4
   6
   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
8
   paper')
10
  Backend TkAgg is interactive backend. Turning interactive mode on.
   Waiting 5s....
   Gurobi Optimizer version 10.0.2 build v10.0.2rc0 (win64)
12
13
  CPU model: 11th Gen Intel(R) Core(TM) i7-11370H @ 3.30GHz, instruction set [SSE2|AVX|AVX2|AVX512]
15
   Thread count: 4 physical cores, 8 logical processors, using up to 8 threads
16
17
   Optimize a model with 667090 rows, 47910 columns and 1947619 nonzeros
   Model fingerprint: 0x109e7b47
   Variable types: 0 continuous, 47910 integer (40308 binary)
20 Coefficient statistics:
21
    Matrix range [1e-01, 1e+15]
    Objective range [1e+00, 5e+01]
    Bounds range [1e+00, 1e+00]
23
24
    RHS range
                [1e+00, 2e+15]
   Warning: Model contains large matrix coefficient range
26
   Warning: Model contains large rhs
27
       Consider reformulating model or setting NumericFocus parameter
28
       to avoid numerical issues.
29
   Presolve removed 390038 rows and 21184 columns (presolve time = 5s) ...
30
   Presolve removed 396129 rows and 21415 columns (presolve time = 11s) ...
31
   Presolve removed 404948 rows and 22135 columns (presolve time = 15s) ...
   Presolve removed 404948 rows and 22135 columns (presolve time = 20s) ...
  Presolve removed 404948 rows and 22135 columns (presolve time = 25s) ...
   Presolve removed 404948 rows and 22135 columns (presolve time = 30s) ...
34
35
   Presolve removed 404948 rows and 22135 columns (presolve time = 35s) ...
   Presolve removed 563618 rows and 32408 columns
   Presolve time: 39.45s
37
   Presolved: 103472 rows, 15502 columns, 384114 nonzeros
38
39
   Variable types: 0 continuous, 15502 integer (15188 binary)
40
41
   Deterministic concurrent LP optimizer: primal and dual simplex (primal and dual model)
42
   Showing first log only...
43
44
   Root relaxation presolved: 15496 rows, 118956 columns, 398843 nonzeros
45
46
47
   Root simplex log...
48
49
   Iteration Objective
                      Primal Inf. Dual Inf.
                                          Time
50
      0 -1.0282000e+04 0.000000e+00 2.399035e+05
51
   Concurrent spin time: 0.08s
52
53
   Solved with dual simplex (primal model)
54
55
   Root relaxation: objective 5.030328e+02, 3367 iterations, 1.56 seconds (1.63 work units)
56
57
     Nodes | Current Node | Objective Bounds | Work
   Expl Unexpl | Obj Depth IntInf | Incumbent BestBd Gap | It/Node Time
58
59
60
        0 503.03283 0 768
                               - 503.03283
        0 515.78540 0 869
                              - 515.78540
61
                                           - - 51s
62
     0
        0 515.78540
                     0 816
                              - 515.78540
                                              - 51s
63
                               - 525 32074
                                              - 54s
     0
        0 525 32074
                     0.1061
64
        0 525.32074
                     0 1054
                               - 525.32074
                                                 54s
65
         0 525.91880
                     0 1380
                               - 525.91880
                                                 54s
        0 526.97998 0 1524
                               - 526.97998
66
     0
                                              - 55s
67
     0
        0 527.76285
                     0 1532
                               - 527.76285
                                              - 56s
                                                 57s
68
     0
        0 528.27359
                     0 1162
                               - 528.27359
69
        0 528.56013
                     0 1332
                               - 528.56013
                                                 58s
70
                                              - 59s
     0
        0 528 88178
                     0.1242
                               - 528 88178
71
     0
        0 529.09061
                     0 976
                               - 529.09061
                                              - 60s
        0 529.50391
                     0 990
                               - 529.50391
                                                61s
73
     0
        0 529.77504
                     0 991
                               - 529.77504
                                              - 61s
74
                                              - 62s
     0
        0 530.04537
                     0 1345
                               - 530.04537
75
        0 530.32699
                     0 1336
                               - 530.32699
                                                 63s
     0
76
     0
        0 530.72987
                     0 1339
                               - 530.72987
                                                 63s
                                              - 63s
        0 530.78885
                               - 530.78885
77
     0
                     0 1331
78
     0
        0 531.09669
                     0.1360
                               - 531.09669
                                              - 64s
     0
         0 531.40608
                     0 1380
                               - 531.40608
79
                                                 65s
```

S0	unknov	WII							
81 0 0 0 5131,03240 0 668 83 0 0 532,237099 0 668 83 0 0 532,251709 0 668 84 0 0 532,261789 0 673 85 0 0 532,201789 0 673 86 0 0 533,14871 0 688 87 0 0 533,14571 0 698 89 0 0 533,14571 0 698 89 0 0 533,45500 0 1969 533,45217 - 698 80 0 0 533,45300 0 778 9 9 0 534,4689 0 718 91 0 0 534,24689 0 194,4689 - 713 9 95 0 0 543,56742 0 284,564191 0 1640 534,54940 10 843,54940 10 184,54940 10 843,54940 10 184	80	0	0	531.52969	0.1632	- 531.52969	_	_	65s
Section									
383 0									
Section									
S5									
86 0 0 533,14871 0 - 68s 87 0 0 533,36000 1969 - 533,36000 0 69s 88 0 0 533,45217 0.1969 - 533,6750 0 70s 90 0 0 533,79580 0.1964 - 533,97386 - 70s 90 0 0 534,26880 0.1994 - 534,26889 - 71s 91 0 0 534,26880 0.1994 - 534,24689 - 71s 94 0 0 543,56742 2.88 - 545,56742 - 8bs 95 0 543,56742 2.278 - 545,56742 - 8bs 96 0 545,54904 0.1108 - 545,54904 - 88s 97 0 545,54904 0.1108 - 545,54904 - 88s 98 0 547,73621 0.1929 - 54,73621 - 93s 100 0 547,73621 0.1926 - 54,73621 - 93s </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
ST 0	85	0					-	-	
ST 0	86	0	0	533.14871	0 2309	- 533.14871	-	-	68s
88 0 0 333,45217 0 1969 - 533,45550 0 70s 90 0									
189									
00									
91 0 0 534.05696 0 1968									
92 0 0 534-24689 0 1990									
93 0 0 534,24689 01994 - 534,24689		_							
93 0 0 534,24689 01994 - 534,24689	92	0	0	534.24689	0 1990	- 534.24689			
94 0 0 943,56742 0 2842	93	0	0	534.24689	0 1994	- 534.24689			
95									
96 0 0 5 454.54019 0 1640									
97 0 0 545.54904 01108		_							
98 0 0 545.54904 01106 545.54904 - 845. 99 0 0 545.54904 011029 545.54904 - 855. 100 0 0 547.73621 01299 547.73621 - 938. 101 0 0 547.73621 01255 547.73621 - 938. 102 0 0 551.41592 021.55 551.41592 - 978. 103 0 0 551.41592 021.55 551.41592 - 978. 104 0 0 553.60600 01938 553.60600 - 988. 105 0 0 553.60600 01938 553.60600 - 988. 106 0 0 553.76517 01911 553.76517 - 1008. 107 0 0 553.76517 01911 553.76517 - 1008. 108 0 0 553.95374 02166 553.95816 - 1018. 109 0 0 553.95418 02169 553.95816 - 1018. 109 0 0 553.95418 02169 553.95816 - 1018. 110 0 0 558.53622 02187 554.44314 - 1068. 111 0 0 558.53622 02187 556.53622 - 1088. 113 0 0 556.53622 0208 556.53622 - 1088. 114 0 0 557.30987 02536 557.0097 1 0217 557.70971 - 1128. 115 0 0 557.30987 02536 557.0097 1 02277 557.70971 - 1128. 116 0 0 558.16088 02728 558.1098 - 1138. 119 0 0 558.16088 02025 558.10688 - 1138. 119 0 0 558.16088 02025 558.10688 - 1138. 120 0 0 559.04494 02614 559.04434 - 1168. 121 0 0 0 559.04494 02614 559.04434 - 1168. 122 0 0 559.04949 02614 559.04434 - 1168. 123 0 0 559.04949 02614 559.04434 - 1168. 124 0 0 559.04949 02614 559.04434 - 1168. 125 0 0 559.04934 02638 559.64234 - 1188. 127 0 0 560.03996 02721 560.03916 - 1188. 128 0 0 560.03996 02721 560.03916 - 1188. 129 0 0 560.03996 02721 560.03916 - 1188. 129 0 0 560.03996 02721 560.03916 - 1188. 120 0 0 560.03996 02721 560.03916 - 1188. 121 0 0 560.03996 02721 560.03916 - 1188. 129 0 0 560.03996 02721 560.03916 - 1188. 120 0 0 560.03996 02721 560.03916 - 1188. 121 0 0 560.03996 02721 560.03916 - 1188. 129 0 0 560.03996 02721 560.03916 - 1188. 120 0 0 560.03999 02757 560.04491 - 1228. 131 0 0 560.03999 02758 560.04491 - 1228. 132 0 0 560.03999 02758 560.04734 - 1018. 133 0 0 560.03999 02758 560.04734 - 1018. 134 0 0 560.03999 02759 560.04734 - 1018. 135 0 0 560.03999 02546 560.34733 - 1148. 136 0 0 560.03999 02546 560.34733 - 1148. 137 0 0 560.03999 02546 560.04733 - 1148. 138 0 0 560.03999 02546 560.04733 - 1148. 139 0 0 560.03999 02546 560.04733 - 1148.									
99									
100		_							
101									
102	100	0			0 1299	- 547.73621			
102	101	0	0	547.73621	0 1265	- 547.73621	-	-	93s
103		0	0	551.41592					
104									
105									
100		_							
107									
108		_							
100	107	0			0 1905				
100	108	0	0	553.95816	0 2169	- 553.95816	-	-	101s
110		_							
111		_							
112									
113									
114									
115		_							
116		0							
116	115	0	0	557.30987	0 2551	- 557.30987	-	-	1118
117	116	0	0	557.70971	0 2278	- 557.70971			
118 0 0 558,16088 0 2205 - 558,16088 - 113s 120 0 0 558,21373 0 2159 - 558,1319 - 114s 121 0 0 559,04449 0 2614 - 559,04449 - 115s 123 0 0 559,64234 0 2604 - 559,64234 - 116s 124 0 0 559,93454 0 2644 - 559,83469 - 117s 126 0 0 559,934751 0 2720 - 559,93469 - 117s 126 0 0 550,03994 0 2721 - 560,03996 - 118s 127 0 0 560,03996 0 2771 - 560,21089 - 118s 129 0 0 560,14519 0 2772 - 560,21089 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
190		_							
120									
121		_							
122		0							
122	121	0	0	559.04449	0 2614	- 559.04449	-	-	1159
123		_							
124		_							
125									
126									
127 0 0 560.03996 0 2721 - 560.06811 - 118s 128 0 560.06811 0 - 560.06811 - 118s 130 0 0 560.5906 0 2777 - 560.21089 - 118s 130 0 560.55006 0 2674 - 560.55006 - 119s 131 0 560.9453 0 560.9453 0 - 560.9453 - 2609 133 0 561.23511 0 2453 - 561.23511 - 121s 134 0 561.23511 0 2442 - 561.23511 - 121s 135 0 561.24491 0 2334 - 561.24491 - 122s 136 0 561.50446 0 2333 - 561.50446 - 126s 139 0 561.50446 0 2329 - 562.18576 - 128s 140 0 562.18576 0 2052 - 562.18576 - 128s 141 0 562.50726 0 2600 -									
128 0 0 560.06811 0 2740 - 560.06811 118s 129 0 0 560.21089 0 - 560.21089 118s 130 0 0 560.91710 0 2674 - 560.55006 119s 131 0 0 560.91710 0 2678 - 560.91710 - 120s 132 0 560.94053 0 2699 - 560.91710 - 120s 133 0 561.23511 0 2442 - 561.23511 - 121s 135 0 0 561.24491 0 2342 - 561.23511 - 122s 136 0 561.50446 0 2332 - 561.50446 - 126s 137 0 561.50446 0 2329 - 561.50446 - 126s 139 0 562.18576 0 2071 - 562.46091 - 128s 141 0 562.18576 0 2052 - 562.46091 - 129s<	126	0	0	559.94751	0 2720	- 559.94751	-	-	1188
128 0 0 560.06811 0 2740 - 560.06811 118s 129 0 0 560.21089 0 2757 - 560.21089 118s 131 0 0 560.55006 0 - 560.55006 - 119s 131 0 0 560.91710 0 2678 - 560.91710 - 120s 132 0 560.94053 0 2699 - 560.91710 - 120s 133 0 561.23511 0 2412 - 561.23511 - 121s 134 0 0 561.24491 0 2342 - 561.23511 - 121s 135 0 0 561.24491 0 2342 - 561.24491 - 122s 136 0 561.50446 0 2329 - 561.50446 - 126s 138 0 561.50446 0 2329 - 561.8576 - 128s 140 0 562.18576 0 2071 - 562.46091	127	0	0	560.03996	0 2721	- 560.03996	-	-	1188
129		0					_		
130		_					_		
131 0 0 560,94053 0 560,94053 0 560,94053 0 120s 133 0 0 561,23511 0 2453 - 561,23511 - 121s 134 0 0 561,23511 0 2442 - 561,23511 - 121s 135 0 0 561,24491 0 2342 - 561,24491 - 122s 136 0 0 561,50446 02353 - 561,50446 - 126s 138 0 0 561,50446 02329 - 561,50446 - 126s 138 0 0 562,18576 02071 - 562,18576 - 128s 140 0 0 562,18576 02021 - 562,18576 - 128s 141 0 0 562,8769 02559 - 562,50726 - 129s 143 0 0 562,87355 02809 - 562,87355 - 134s 144 0 562,87355 02809 - 562,87355 - 134s 145 0 562,94973 02520 - 562,94536 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>							-		
132 0 0 560.94053 0 2699 - 560.94053 120s 133 0 0 561.23511 0 2452 - 561.23511 - 121s 135 0 0 561.24491 02342 - 561.24491 - 122s 136 0 0 561.544491 02334 - 561.544491 - 122s 137 0 0 561.50446 02353 - 561.50446 - 126s 138 0 0 561.50446 02329 - 561.50446 - 126s 139 0 0 562.18576 0 2071 - 562.18576 - 128s 140 0 0 562.18576 0 2052 - 562.18576 - 128s 141 0 0 562.46091 0 2131 - 562.46091 - 129s 142 0 0 562.50726 0 2600 - 562.87355 - 2899 143 0 0 562.87355 0 2899 - 562.87355 - 134s 145 0 0 562.94973 0 2520 - 562.97580 - 143s <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>		_					-		
133 0 0 561.23511 0 2453 - 561.23511 - - 121s 135 0 0 561.23491 0 2342 - 561.24491 - 122s 136 0 0 561.24491 0 2334 - 561.24491 - 122s 137 0 0 561.50446 0 2353 - 561.50446 - 126s 138 0 0 561.8576 0 2071 - 562.18576 - 126s 139 0 0 562.18576 0 2071 - 562.18576 - 128s 140 0 0 562.18576 0 2052 - 562.18576 - 128s 141 0 0 562.18576 0 2052 - 562.18576 - 129s 141 0 0 562.50726 0 2600 - 562.50726 - 120s 144 0 0 562.87355 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
134 0 0 561.23511 0 2442 - 561.23511 121s 135 0 0 561.24491 0 2342 - 561.24491 - 122s 136 0 0 561.50446 0 2334 - 561.50446 - 126s 137 0 0 561.50446 0 2329 - 561.50446 - 126s 138 0 0 561.8576 0 2071 - 562.18576 - 128s 140 0 0 562.18576 0 2052 - 562.18576 - 128s 141 0 0 562.46091 0 2131 - 562.46091 - 129s 142 0 0 562.50726 0 2600 - 562.50726 - 130s 144 0 0 562.87355 0 2809 - 562.87355 - 134s 145 0 0 562.97580 0 - 137s - 134s 146 0 0 562.97580 0 - 140s 147 0 0 562.97580		_							
135 0 0 561.24491 0 2342 - 561.24491 - - 122s 137 0 0 561.50446 0 2353 - 561.50446 - - 126s 138 0 0 561.50446 0 2329 - 561.50446 - - 126s 139 0 0 562.18576 0 2071 - 562.18576 - - 128s 140 0 0 562.18576 0 2052 - 562.18576 - - 128s 141 0 0 562.46091 0 2131 - 562.46091 - 129s 142 0 0 562.50726 0 2559 - 562.50679 - 129s 143 0 0 562.87355 0 2809 - 562.87355 - 130s 144 0 0 562.87355 0 2809 - 562.87355 - 134s 145	133	0	0	561.23511	0 2453	- 561.23511	-	-	1215
135 0 0 561.24491 0 2342 - 561.24491 - - 122s 137 0 0 561.50446 0 2353 - 561.50446 - - 126s 138 0 0 561.50446 0 2329 - 561.50446 - - 126s 139 0 0 562.18576 0 2071 - 562.18576 - - 128s 140 0 0 562.18576 0 2052 - 562.18576 - - 128s 141 0 0 562.46091 0 2131 - 562.46091 - 129s 142 0 0 562.50726 0 2559 - 562.50679 - 129s 143 0 0 562.87355 0 2809 - 562.87355 - 130s 144 0 0 562.87355 0 2809 - 562.87355 - 134s 145		0	0	561.23511			-	-	1219
136 0 0 561.24491 0 2334 - 561.50446 - 126s 137 0 0 561.50446 0 2329 - 561.50446 - 126s 138 0 0 562.18576 0 2071 - 562.18576 - 128s 140 0 0 562.18576 0 2072 - 562.18576 - 128s 141 0 0 562.18576 0 2052 - 562.18576 - 128s 141 0 0 562.46091 0 2131 - 562.46091 - 129s 142 0 0 562.50729 0 2559 - 562.50729 - 130s 143 0 0 562.87355 0 2809 - 562.87355 - 134s 144 0 0 562.87355 0 2809 - 562.87355 - 134s 145 0 0 562.87355 0 2788 - 562.87355 - 134s 146 0 0 562.97380 0 0 140s 147 0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
137 0 0 561.50446 0 2353 - 561.50446 - - 126s 139 0 561.50446 0 2329 - 561.50446 - - 126s 139 0 0 562.18576 0 2071 - 562.18576 - 128s 140 0 0 562.18576 0 2052 - 562.18576 - 128s 141 0 0 562.46091 0 2131 - 562.50726 - 129s 142 0 0 562.50726 0 2600 - 562.50726 - 129s 143 0 0 562.87355 0 2809 - 562.50726 - 130s 144 0 0 562.87355 0 2809 - 562.87355 - 134s 145 0 0 562.94373 0 2520 - 562.97350 - 137s 148 0 0 562.97580 0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
138 0 0 561.50446 0 2329 - 561.50446 - - 126s 139 0 0 562.18576 0 2071 - 562.18576 - - 128s 140 0 0 562.18576 0 2052 - 562.18576 - - 128s 141 0 0 562.46091 0 129s - 129s 142 0 0 562.50726 0 2600 - 562.50679 - 129s 143 0 0 562.50726 0 2600 - 562.50726 - 130s 144 0 0 562.87355 0 2788 - 562.87355 - 134s 145 0 0 562.94973 0 134s - 145s - 145s 0 0 562.94973 0 134s 147 0 0 562.97580 0 2571 - 562.97580 - 140s <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
139 0 0 562.18576 0 2071 - 562.18576 - - 128s 140 0 0 562.18576 0 2052 - 562.18576 - - 128s 141 0 0 562.46091 0 2131 - 562.46091 - 129s 142 0 0 562.50726 0 2600 - 562.50726 - 129s 143 0 0 562.50726 0 2600 - 562.50726 - 13ds 144 0 0 562.87355 0 2809 - 562.87355 - 134s 145 0 0 562.94973 0 2520 - 562.94973 - 136s 147 0 0 562.95364 0 2622 - 562.97580 - 140s 148 0 0 562.97580 0 2571 - 562.97580 - 140s 150 0 563.28215 0 </td <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		_							
140 0 0 562.18576 0 2052 - 562.18576 - - 128s 141 0 0 562.46091 0 2131 - 562.46091 - - 129s 142 0 0 562.50726 0 2600 - 562.50726 - - 130s 144 0 0 562.87355 0 2809 - 562.87355 - - 134s 145 0 0 562.87355 0 278s - 562.87355 - - 134s 146 0 0 562.94973 0 2520 - 562.87355 - - 134s 147 0 0 562.95364 0 2622 - 562.95364 - - 137s 148 0 0 562.97580 0 2516 - 562.97580 - - 140s 150 0 0 563.28215 0 1916 - 563.28215 - -	138	0	0	561.50446	0 2329		-	-	1269
140 0 0 562.18576 0 2052 - 562.18576 - - 128s 141 0 0 562.46091 0 2131 - 562.46091 - - 129s 142 0 0 562.50726 0 2600 - 562.50726 - - 130s 144 0 0 562.87355 0 2809 - 562.87355 - - 134s 145 0 0 562.87355 0 278s - 562.87355 - - 134s 146 0 0 562.94973 0 2520 - 562.87355 - - 134s 147 0 0 562.95364 0 2622 - 562.95364 - - 137s 148 0 0 562.97580 0 2516 - 562.97580 - - 140s 150 0 0 563.28215 0 1916 - 563.28215 - -	139	0	0	562.18576	0 2071	- 562.18576	-	-	1289
141 0 0 562.46091 0 2131 - 562.46091 - - 129s 142 0 0 562.50679 0 2559 - 562.50726 - - 129s 143 0 0 562.50726 0 2600 - 562.50726 - - 130s 144 0 0 562.87355 0 2809 - 562.87355 - 134s 145 0 0 562.87355 0 2788 - 562.87355 - 134s 146 0 0 562.94973 0 2520 - 562.94973 - 136s 147 0 562.95364 0 2622 - 562.95364 - 137s 148 0 0 562.97580 0 2511 - 562.97580 - 140s 149 0 562.97580 0 2516 - 562.97580 - 140s 150 0 563.28215 0 191		_							
142 0 0 562.50679 0 2559 - 562.50679 - - 129s 143 0 0 562.50726 0 2600 - 562.50726 - - 130s 144 0 0 562.87355 0 2809 - 562.87355 - - 134s 145 0 0 562.87355 0 2788 - 562.87355 - - 134s 146 0 0 562.94973 0 2520 - 562.94973 - 136s 147 0 0 562.97580 0 2571 - 562.97580 - 140s 148 0 0 562.97580 0 2571 - 562.97580 - - 140s 150 0 0 563.28215 0 1923 - 563.28215 - 140s 151 0 0 563.28215 0 1916 - 563.28215 - 143s 152									
143 0 0 562.50726 0 2600 - 562.50726 - - 130s 144 0 0 562.87355 0 2809 - 562.87355 - - 134s 145 0 0 562.87355 0 2788 - 562.87355 - - 134s 146 0 0 562.94973 0 2520 - 562.94973 - - 136s 147 0 0 562.95364 0 2622 - 562.97580 - - 140s 148 0 0 562.97580 0 2571 - 562.97580 - - 140s 150 0 0 563.28215 0 1923 - 563.28215 - 142s 151 0 0 563.28215 0 1916 - 563.28215 - 143s 152 0 0 563.47334 0 2694 - 563.47334 - - 146s <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		_							
144 0 0 562.87355 0 2809 - 562.87355 - - 134s 145 0 0 562.87355 0 2788 - 562.87355 - - 134s 146 0 0 562.94973 0 2520 - 562.94973 - - 136s 147 0 0 562.95364 0 2571 - 562.97580 - - 140s 149 0 0 562.97580 0 2516 - 562.97580 - - 140s 150 0 0 563.28215 0 1923 - 563.28215 - 142s 151 0 0 563.28215 0 1923 - 563.28215 - - 143s 152 0 0 563.47334 0 2694 - 563.47334 - - 146s 154 0 0 563.49922 0 2393 - 563.49922 - 147s <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
145 0 0 562.87355 0 2788 - 562.87355 - - 134s 146 0 0 562.94973 0 2520 - 562.94973 - - 136s 147 0 0 562.95364 0 262.95364 - - 137s 148 0 0 562.97580 0 2571 - 562.97580 - - 140s 149 0 0 563.28215 0 0 2516 - 562.97580 - - 140s 150 0 0 563.28215 0 1923 - 563.28215 - 142s 151 0 0 563.28215 0 1916 - 563.28215 - 143s 152 0 0 563.47334 0 2694 - 563.47334 - 146s 154 0 0 563.47334 0 2691 - 563.47334 - 146s 155 0 <	143	0			0 2600	- 562.50726	-	-	130s
145 0 0 562.87355 0 2788 - 562.87355 - - 134s 146 0 0 562.94973 0 2520 - 562.94973 - - 136s 147 0 0 562.95364 0 262.95364 - - 137s 148 0 0 562.97580 0 2571 - 562.97580 - - 140s 149 0 0 563.28215 0 0 2516 - 562.97580 - - 140s 150 0 0 563.28215 0 1923 - 563.28215 - 142s 151 0 0 563.28215 0 1916 - 563.28215 - 143s 152 0 0 563.47334 0 2694 - 563.47334 - 146s 154 0 0 563.47334 0 2691 - 563.47334 - 146s 155 0 <	144	0	0	562.87355	0 2809	- 562.87355	-	-	1349
146 0 0 562.94973 0 2520 - 562.94973 - - 136s 147 0 0 562.95364 0 2622 - 562.95364 - - 137s 148 0 0 562.97580 0 2571 - 562.97580 - - 140s 149 0 0 562.97580 0 2516 - 562.97580 - - 140s 150 0 0 563.28215 0 1923 - 563.28215 - - 142s 151 0 0 563.28215 0 1916 - 563.28215 - - 143s 152 0 0 563.36677 0 2664 - 563.36677 - 143s 153 0 0 563.47334 0 2691 - 563.47334 - 146s 154 0 0 563.49322 0 2393 - 563.61587 - 148s									
147 0 0 562.95364 0 2622 - 562.95364 - - 137s 148 0 0 562.97580 0 2571 - 562.97580 - - 140s 149 0 0 562.97580 0 2516 - 562.97580 - - 140s 150 0 0 563.28215 0 1923 - 563.28215 - - 142s 151 0 0 563.28215 0 1916 - 563.28215 - - 143s 152 0 0 563.36677 0 2664 - 563.36677 - 143s 153 0 0 563.47334 0 2694 - 563.47334 - 146s 154 0 0 563.47334 0 2691 - 563.49922 - 147s 155 0 0 563.61587 0 2539 - 563.61587 - 148s 157		_							
148 0 0 562.97580 0 2571 - 562.97580 - - 140s 149 0 0 562.97580 0 2516 - 562.97580 - - 140s 150 0 0 563.28215 0 1923 - 563.28215 - - 142s 151 0 0 563.28215 0 1916 - 563.28215 - - 143s 152 0 0 563.36677 0 2664 - 563.36677 - - 143s 153 0 0 563.47334 0 2694 - 563.47334 - - 146s 154 0 0 563.49922 0 2393 - 563.49922 - 147s 156 0 0 563.61587 0 2396 - 563.61587 - 148s 157 0 0 563.64523 0 2334 - 563.64523 - - 150s <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
149 0 0 562.97580 0 2516 - 562.97580 - - 140s 150 0 0 563.28215 0 1923 - 563.28215 - - 142s 151 0 0 563.28215 0 1916 - 563.28215 - - 143s 152 0 0 563.36677 0 2664 - 563.36677 - - 143s 153 0 0 563.47334 0 2694 - 563.47334 - - 146s 154 0 0 563.49922 0 2393 - 563.49922 - 147s 156 0 0 563.61587 0 2539 - 563.61587 - 148s 157 0 0 563.64523 0 2334 - 563.64523 - - 148s 158 0 0 563.99099 0 2546 - 563.99099 - - 152s <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
150 0 0 563.28215 0 1923 - 563.28215 - - 142s 151 0 0 563.28215 0 1916 - 563.28215 - - 143s 152 0 0 563.36677 0 2664 - 563.36677 - - 143s 153 0 0 563.47334 0 2691 - 563.47334 - 146s 154 0 0 563.49922 0 2393 - 563.49922 - 147s 156 0 0 563.61587 0 2539 - 563.61587 - 148s 157 0 0 563.64523 0 2396 - 563.61587 - 148s 158 0 0 563.69323 0 2334 - 563.64523 - - 150s 159 0 563.99099 0 2492 - 563.99099 - - 152s 160 0							-		
150 0 0 563.28215 0 1923 - 563.28215 - - 142s 151 0 0 563.28215 0 1916 - 563.28215 - - 143s 152 0 0 563.36677 0 2664 - 563.36677 - - 143s 153 0 0 563.47334 0 2691 - 563.47334 - 146s 154 0 0 563.49922 0 2393 - 563.49922 - 147s 156 0 0 563.61587 0 2539 - 563.61587 - 148s 157 0 0 563.64523 0 2396 - 563.61587 - 148s 158 0 0 563.69323 0 2334 - 563.64523 - - 150s 159 0 563.99099 0 2546 - 563.99099 - - 152s 160 0	149	0	0	562.97580	0 2516	- 562.97580	-	-	140s
151 0 0 563.28215 0 1916 - 563.28215 - - 143s 152 0 0 563.36677 0 2664 - 563.36677 - - 143s 153 0 0 563.47334 0 2694 - 563.47334 - - 146s 154 0 0 563.49322 0 2393 - 563.49922 - 147s 156 0 0 563.61587 0 2539 - 563.61587 - 148s 157 0 0 563.64523 0 2396 - 563.61587 - 148s 158 0 0 563.64523 0 2334 - 563.64523 - 150s 159 0 563.99099 0 2546 - 563.99099 - - 152s 160 0 564.05938 0 2393 - 564.05938 - - 153s 162 0 564.09192 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>							-		
152 0 0 563.36677 0 2664 - 563.36677 - - 143s 153 0 0 563.47334 0 2694 - 563.47334 - - 146s 154 0 0 563.47334 0 2691 - 563.47334 - - 146s 155 0 0 563.49922 0 2393 - 563.49922 - 147s 156 0 0 563.61587 0 25399 - 563.61587 - 148s 157 0 0 563.64523 0 2334 - 563.64523 - 150s 158 0 0 563.99099 0 2546 - 563.99099 - - 152s 160 0 0 563.99099 0 2492 - 563.99099 - - 152s 161 0 0 564.05938 0 2393 - 564.05938 - - 154s <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		_							
153 0 0 563.47334 0 2694 - 563.47334 - - 146s 154 0 0 563.47334 0 2691 - 563.47334 - - 146s 155 0 0 563.49922 0 2393 - 563.49922 - - 147s 156 0 0 563.61587 0 2539 - 563.61587 - - 148s 157 0 0 563.61587 0 2396 - 563.61587 - - 148s 158 0 0 563.64523 0 2334 - 563.64523 - - 150s 159 0 0 563.99099 0 2546 - 563.99099 - - 152s 160 0 0 563.99099 0 2492 - 563.99099 - - 152s 161 0 0 564.05938 0 2393 - 564.05938 - -									
154 0 0 563.47334 0 2691 - 563.47334 - - 146s 155 0 0 563.49922 0 2393 - 563.49922 - - 147s 156 0 0 563.61587 0 2539 - 563.61587 - - 148s 157 0 0 563.61587 0 2396 - 563.61587 - - 148s 158 0 0 563.64523 0 2334 - 563.64523 - - 150s 159 0 0 563.99099 0 2546 - 563.99099 - - 152s 160 0 0 563.99099 0 2492 - 563.99099 - - 152s 161 0 0 564.05938 0 2393 - 564.05938 - - 153s 162 0 0 564.09192 0 2417 - 564.09192 - -		_							
155 0 0 563.49922 0 2393 - 563.49922 - - 147s 156 0 0 563.61587 0 2539 - 563.61587 - - 148s 157 0 0 563.61587 0 2396 - 563.61587 - - 148s 158 0 0 563.64523 0 2334 - 563.64523 - - 150s 159 0 0 563.99099 0 2546 - 563.99099 - - 152s 160 0 0 563.99099 0 2492 - 563.99099 - - 152s 161 0 0 564.05938 0 2393 - 564.05938 - - 153s 162 0 0 564.09192 0 2417 - 564.09192 - - 154s									
156 0 0 563.61587 0 2539 - 563.61587 - - 148s 157 0 0 563.61587 0 2396 - 563.61587 - - 148s 158 0 0 563.64523 0 2334 - 563.64523 - - 150s 159 0 0 563.99099 0 2546 - 563.99099 - - 152s 160 0 0 563.99099 0 2492 - 563.99099 - - 152s 161 0 0 564.05938 0 2393 - 564.05938 - - 153s 162 0 0 564.09192 0 2417 - 564.09192 - - 154s	154	0	0	563.47334	0 2691	- 563.47334	-	-	1469
156 0 0 563.61587 0 2539 - 563.61587 - - 148s 157 0 0 563.61587 0 2396 - 563.61587 - - 148s 158 0 0 563.64523 0 2334 - 563.64523 - - 150s 159 0 0 563.99099 0 2546 - 563.99099 - - 152s 160 0 0 563.99099 0 2492 - 563.99099 - - 152s 161 0 0 564.05938 0 2393 - 564.05938 - - 153s 162 0 0 564.09192 0 2417 - 564.09192 - - 154s	155	0	0	563.49922	0 2393	- 563.49922	-		
157 0 0 563.61587 0 2396 - 563.61587 - - 148s 158 0 0 563.64523 0 2334 - 563.64523 - - 150s 159 0 0 563.99099 0 2546 - 563.99099 - - 152s 160 0 0 563.99099 0 2492 - 563.99099 - - 152s 161 0 0 564.05938 0 2393 - 564.05938 - - 153s 162 0 0 564.09192 0 2417 - 564.09192 - - 154s									
158 0 0 563.64523 0 2334 - 563.64523 - - 150s 159 0 0 563.99099 0 2546 - 563.99099 - - 152s 160 0 0 563.99099 0 2492 - 563.99099 - - 152s 161 0 0 564.05938 0 2393 - 564.05938 - - 153s 162 0 0 564.09192 0 2417 - 564.09192 - - 154s		_							
159 0 0 563.99099 0 2546 - 563.99099 - - 152s 160 0 0 563.99099 0 2492 - 563.99099 - - 152s 161 0 0 564.05938 0 2393 - 564.05938 - - 153s 162 0 0 564.09192 0 2417 - 564.09192 - - 154s									
160 0 0 563.99099 0 2492 - 563.99099 - - 152s 161 0 0 564.05938 0 2393 - 564.05938 - - 153s 162 0 0 564.09192 0 2417 - 564.09192 - - 154s		_							
161 0 0 564.05938 0 2393 - 564.05938 153s 162 0 0 564.09192 0 2417 - 564.09192 154s		0					-		
161 0 0 564.05938 0 2393 - 564.05938 153s 162 0 0 564.09192 0 2417 - 564.09192 154s	160	0	0	563.99099	0 2492	- 563.99099	-	-	1528
162 0 0 564.09192 0 2417 - 564.09192 154s		_							
103									
	163	U	_0	304.09192	U 2483	- 564.09192			1558

```
164
          0 564.25071 0 1672
                                  - 564.25071
                                                  - 160s
       0
165
          0 564.25071
                       0.1670
                                  - 564.25071
                                                  - 160s
          0.564.32802
                       0.1943
                                  - 564.32802
166
                                                   - 161s
167
       0
          0 564.32802
                       0.1942
                                  - 564.32802
                                                   - 161s
          0 564.40792
                       0 2458
                                  - 564.40792
                                                  - 163s
168
169
       0
          0 564.40792
                       0 2448
                                  - 564.40792
                                                - - 164s
                                               - - 165s
170
          0 564.45355
                                  - 564.45355
       0
                       0.2439
                                                - - 165s
171
          0\ 564.48699\quad 0\ 2621
                                  - 564.48699
                                                - - 166s
172
       0
          0 564.48699
                       0.2676
                                  - 564.48699
                                  - 564.58541
                                               - - 172s
173
          0 564.58541
                       0.2417
       0
                                               - - 172s
- - 173s
          0 564.58541
                                  - 564.58541
174
       0
                       0.2414
175
       0
          0 564.72808
                       0.2395
                                  - 564.72808
                                               - - 173s
176
          0 564.72808 0 2394
                                  - 564.72808
177
          0 564.73274
                       0.2357
                                  - 564.73274
                                               - - 174s
       0
178
       0
          0 564.73274
                       0 2354
                                  - 564.73274
                                                  - 175s
          0 564.89444
                                  - 564.89444
                                                  - 180s
179
                       0 2179
180
          0 564.89444
                       0 1990
                                  - 564.89444
                                                - - 181s
       0
                                               - - 184s
          0 564 91542
                                  - 564 91542
181
       0
                       0.2182
                                               - - 184s
182
          0 564.91542 0 2168
                                  - 564.91542
183
       0
          0 564.92709
                       0 2557
                                  - 564.92709
                                                - - 185s
          0 564.92709 0 2546
                                  - 564.92709
                                               - - 185s
184
       0
                                               - - 188s
185
       0
          0 565.04565 0 1673
                                  - 565.04565
186
          0 565.17331
                                  - 565.17331
                                                  - 189s
       0
                       0 1840
                       0 1840
                                                - - 189s
187
       0
          0 565.17331
                                  - 565.17331
                                                - - 190s
188
          0 565.17571
                       0 1914
                                  - 565.17571
       0
189
       0
          0 565.17571
                       0 1909
                                  - 565.17571
                                                  - 191s
                                                  - 194s
190
          0 565.27988
                       0 1725
                                  - 565.27988
191
                                               - - 195s
       0
          0 565,33389
                       0 1648
                                  - 565.33389
                                               - - 196s
- - 197s
192
       0
          0 565.36830 0 1801
                                  - 565.36830
193
          0 565.49394
                       0 2232
                                  - 565.49394
194
       0
          0 565.49394
                       0 2176
                                  - 565.49394
                                                - - 197s
                                               - - 198s
195
                                  - 565.50207
          0 565,50207
       0
                       0.2252
196
       0
          0 565.74425 0 1890
                                  - 565.74425
                                               - - 201s
197
          0 565.74425
                                  - 565.74425
       0
                       0 1888
                                                  - 201s
198
          0 566.12222
                       0.1860
                                  - 566.12222
                                               - - 204s
       0
                                               - - 204s
199
          0 566.12222
                       0.1741
                                  - 566.12222
       0
200
       0
          0 566.14389
                       0 1854
                                  - 566.14389
                                                  - 205s
                                                  - 206s
201
          0 566.19854 0 1761
                                  - 566.19854
          0 566.19895 0 1754
                                  - 566.19895
                                               - - 207s
202
       0
203
       0
          0 566.26030 0 1716
                                  - 566.26030
                                               - - 210s
                                               - - 210s
204
          0 566.26030 0 1701
                                  - 566.26030
205
       0
          0 566.28884
                       0 2029
                                  - 566.28884
                                                - - 212s
                                               - - 212s
206
          0 566.28884
                       0.2026
                                  - 566.28884
       0
207
       0
          0 566.35680 0 2091
                                  - 566.35680
                                               - - 213s
                                                - - 214s
208
       0
          0 566.36031
                       0 2020
                                  - 566.36031
                                               - - 214s
209
       0
          0 566,36031
                       0 2019
                                  - 566.36031
                                               - - 218s
                                  - 566.40536
210
       0
          0 566.40536 0 2085
211
       0
          0 566.40536
                       0 2077
                                  - 566.40536
                                                  - 218s
                                                  - 219s
212
          0 566.42358 0 2276
                                  - 566.42358
                                               - - 220s
          0 566.42358 0 2187
                                  - 566.42358
213
       0
                                               - - 223s
214
       0
          0 566.44340 0 2022
                                  - 566.44340
                                               - - 223s
215
          0 566.44340 0 2016
                                  - 566,44340
          0 566.45467
                                  - 566.45467
                                               - - 224s
216
       0
                       0 2064
                                  - 566.58751
                                               - - 227s
          0 566.58751 0 2000
217
       0
218
          0 566.58751 0 1995
                                  - 566.58751
                                               - - 227s
                                                - - 230s
219
       0
          0 566.58751 0 1371
                                  - 566.58751
          2 566.58751 0 1360
                                               - - 245s
220
       0
                                  - 566.58751
                                                - 776 250s
221
      11
          16 569.33582 3 675
                                  - 569.33582
222
       88
          97 593.37330 15 832
                                   - 569.64248
                                                - 245 255s
223
      221
          236 608.11628 35 199
                                    - 569.64248
                                                - 154 260s
224
      320 325 634 00000 72 118
                                    - 569.64248
                                                 - 165 265s
225
      439 431 644.00000 105 266
                                    - 569.64248
                                                  - 192 270s
226
                     89 930.0000000 569.64248 38.7% 190 270s
227
      504 417 infeasible 110 930.00000 569.64248 38.7% 220 275s
228
      599 501 644.00000 143 127 930.00000 569.64248 38.7% 232 281s
229
      647 538 644.00000 172 110 930.00000 569.64248 38.7% 250 288s
230
      663 567 644.00000 179 112 930.00000 569.64248 38.7% 262 291s
231 H 726 581
                         924 0000000 569 64248 38 4% 243 293s
      730 616 644.00000 233 110 924.00000 569.64248 38.4% 248 295s
232
233
    H 844 619
                         884.0000000 569.64248 35.6% 232 298s
234
     858 678 644.00000 314 109 884.00000 569.64248 35.6% 234 301s
235 H 905 674
                         844.0000000 569.64248 32.5% 222 301s
236
      929 721 644.00000 337 110 844.00000 569.64248 32.5% 221 306s
237
     1066 779 644.00000 209 1371 844.00000 569.64248 32.5% 212 364s
238
    H 1067 741
                          758.0000000 569.64248 24.8% 212 376s
239
    H 1067 703
                          738.0000000 569.64248 22.8% 212 382s
240
     1069 704 628.00000 60 513 738.00000 569.64248 22.8% 212 406s
241
     1070
           705 645.00000 24 1112 738.00000 569.64248 22.8% 211 415s
           705 592.18571 54 1172 738.00000 569.64248 22.8% 211 423s
242
     1071
243
     1072 706 644.00000 280 304 738.00000 569.64248 22.8% 211 425s
           709 634.00000 68 481 738.00000 570.70415 22.7% 210 430s
244
     1076
     1078 710 644.58824 149 498 738.00000 570.75503 22.7% 210 437s
245
     1079 711 644.00000 170 580 738.00000 572.03803 22.5% 210 448s
246
     1080 711 588.00000 41 836 738.00000 573.13608 22.3% 209 453s
247
```

```
248
      1082 713 573.48807 4 931 738.00000 573.48807 22.3% 209 455s
249
      1084 714 644.73529 267 983 738.00000 573.54910 22.3% 209 465s
      1085 715 605.07870 9 368 738.00000 574.14464 22.2% 209 474s
250
251
      1086
           715 644.00000 166 477 738.00000 574.22380 22.2% 208 475s
252
      1087 716 628.00000 85 687 738.00000 574.22998 22.2% 208 483s
253
      1088
           717 625.93277 76 1210 738.00000 575.20416 22.1% 208 495s
      1090 718 598.11780 3 789 738.00000 575.67232 22.0% 208 505s
254
255
     1091 719 628.00000 36 379 738.00000 575.77209 22.0% 207 518s
                           698.0000000 575.77209 17.5% 207 520s
256 H 1091 683
257
      1093 684 620.78986 33 315 698.00000 575.86056 17.5% 207 538s
258
      1095 685 631.14397 14 458 698.00000 575.91746 17.5%
                                                              207 543s
259
      1096 686 592.04376 37 442 698.00000 575.96484 17.5%
                                                              206 557s
260
      1097 687 644.58824 125 468 698.00000 575.97298 17.5% 206 563s
      1098 687 640.00000 50 367 698.00000 576.02837 17.5% 206 575s
261
262
      1099 688 608.45472 20 600 698.00000 576.03939 17.5%
                                                              206 582s
      1100 689 634.00000 63 338 698.00000 576.04792 17.5% 206 591s
263
      1101 689 644.00000 162 520 698.00000 576.04826 17.5%
                                                              206 596s
264
      1102 690 590,50000 19 659 698,00000 576,05085 17.5% 205 605s
265
266
      1103 691 644.14706 309 655 698.00000 576.05136 17.5% 205 610s
267
      1104 691 644.00000 168 323 698.00000 576.05994 17.5% 205 618s
     1105 692 644.00000 390 321 698.00000 576.05994 17.5% 205 624s
268
                           618.0000000 576.05994 6.79% 205 625s
269 H 1105 657
270 H 1105 623
                           598.0000000 576.05994 3.67% 205 628s
271
     1106 624 598.00000 13 321 598.00000 576.05994 3.67% 205 631s
     1107 626 598.00000 106 1371 598.00000 576.05994 3.67% 310 655s
272
273
      1109 627 598.00000 30 286 598.00000 576.05994 3.67% 310 663s
      1110 628 597.52989 17 352 598.00000 576.05994 3.67% 309 675s
      1111 629 598.00000 8 247 598.00000 576.05994 3.67% 309 681s
275
      1115 633 588.00000 41 1371 598.00000 577.34568 3.45% 330 705s
276
277
      1120 638 598.00000 62 1371 598.00000 577.34568 3.45% 347 722s
278
279 Explored 1121 nodes (513344 simplex iterations) in 722.78 seconds (980.97 work units)
280 Thread count was 8 (of 8 available processors)
281
282 Solution count 9: 598 618 698 ... 930
283
284 Optimal solution found (tolerance 1.00e-04)
285 Best objective 5.980000000000e+02, best bound 5.98000000000e+02, gap 0.0000%
286 Optimal Obj: 598.0
287 \text{ Obj} = 598.0
288
    Solutions
                        pi: 7-14,
289
    Vessel i: 0:
                                   ai-di: 5-27,
                                                taoi-deltai: 5-15, periodi: 10, taoPi SP-deltaPi SP: 5-8, periodPi: 3, betaNi: 6, bi: 10, Txijt: 70
                 li: 7.
                 o2i: 60, o3i: -189, o4i: 120,
        o1i: 70.
                                                Ti: 61
290
    Vessel i: 1:
                 li: 6,
                        pi: 14-20,
                                    ai-di: 11-28,
                                                   taoi-deltai: 11-16,
                                                                     periodi: 5,
                                                                                  taoPi SP-deltaPi SP: 11-13,
                                                                                                              periodPi: 2,
                                                                                                                           betaNi: 3, bi: 5, Txijt
          o1i: 30, o2i: 40, o3i: -78, o4i: 60,
     : 30,
                                                 Ti: 52
    Vessel i: 2: li: 7, pi: 27-34, ai-di: 13-54,
                                                  taoi-deltai: 13-42,
                                                                     periodi: 29,
                                                                                   taoPi_SP-deltaPi_SP: 13-21,
                                                                                                               periodPi: 8,
                                                                                                                            betaNi: 17,
                                                                                                                                         bi: 29,
                 o1i: 203, o2i: 160, o3i: -567,
                                                o4i: 340, Ti: 136
     Txijt: 203,
                                                                                                               periodPi: 5,
    Vessel i: 3:
                 li: 6,
                        pi: 13-19,
                                   ai-di: 33-64,
                                                  taoi-deltai: 34-53,
                                                                     periodi: 19,
                                                                                   taoPi_SP-deltaPi_SP: 34-39,
                                                                                                                            betaNi: 11,
                                                                                                                                         bi: 19,
                 o1i: 134, o2i: 100, o3i: -364, o4i: 220, Ti: 90
     Txijt: 114,
                        pi: 19-26,
                                    ai-di: 27-65,
                                                                                                               periodPi: 7,
    Vessel i: 4:
                 li: 7.
                                                  taoi-deltai: 27-53.
                                                                     periodi: 26,
                                                                                   taoPi SP-deltaPi SP: 27-34,
                                                                                                                            betaNi: 15.
                                                                                                                                         bi: 26.
                 o1i: 182, o2i: 140, o3i: -513,
     Txijt: 182,
                                                o4i: 300, Ti: 109
294
                 li: 6, pi: 7-13, ai-di: 30-60,
                                                                                 taoPi_SP-deltaPi_SP: 30-35,
    Vessel i: 5:
                                                taoi-deltai: 30-48,
                                                                    periodi: 18,
                                                                                                             periodPi: 5,
                                                                                                                           betaNi: 14,
                                                                                                                                        bi: 18.
                 o1i: 108, o2i: 100, o3i: -338,
     Txiit: 108.
                                                o4i: 280. Ti: 150
    TimeSolveModel: 750.000000
295
296
297
298
299 TimeAll: 754.000000
300
301
302
303
```