```
D:\Python\Python\setroute\python.exe "D:\Python\Pycharm\setroute\PyCharm Community Edition 2021.2.3\plugins\python-ce\helpers\pydev\pydevconsole.py" --mode=client --port=23048

import sys; print('Python %s on %s' % (sys.version, sys.platform))
sys.path.extend(['E:\\1 □□□□\\3 □□□□□\\1 □□□□□□□\\1 □□□□□□□□□\\1_□□□□□□_□□□□\\1_LW _□□□□1\\4 □□□□\\3 python_code\\9 Code for this paper', 'E:/1 □□□□/3 □□□□□/1 □□□□□□/1 □□□□□□□□/1_□□□□□□_□□□□/1_LW _□□□□1/4 □□□□/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 _□□□□1/4 □□□□/3 python_code/9 Code for this paper/main_DM.py', wdir='E:/1 □□□□/3 □□□□□/1 □□□□□□□/1 □□□□□□□□/1_□□□□□□_□□□□/1_LW _□□□□1/4 □□□□/3 python_code/9 Code for this paper')
Backend TkAgg is interactive backend. Turning interactive mode on.
Waiting 5s.....

Optimize the  ./R_10_10.xlsx  instance

Set parameter TimeLimit to value 1200

Set parameter PoolSolutions to value 3
Set parameter PoolGap to value 0.05
Set parameter PoolSearchMode to value 2
Gurobi Optimizer version 11.0.0 build v11.0.0rc2 (win64 - Windows 10.0 (19045.2))

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 260882 rows, 80570 columns and 770550 nonzeros
Model fingerprint: 0xf9a18504
Variable types: 0 continuous, 80570 integer (67900 binary)
Coefficient statistics:
  Matrix range     [1e+00, 5e+05]
  Objective range  [1e+00, 1e+00]
  Bounds range     [1e+00, 1e+00]
  RHS range        [1e+00, 6e+06]
Presolve removed 189364 rows and 3001 columns
Presolve time: 0.52s
Presolved: 71518 rows, 77569 columns, 212087 nonzeros
Variable types: 0 continuous, 77569 integer (64909 binary)
Root relaxation presolved: 71473 rows, 77614 columns, 211955 nonzeros

Deterministic concurrent LP optimizer: primal and dual simplex
Showing primal log only...

Concurrent spin time: 0.00s

Solved with dual simplex

Root relaxation: objective 2.622355e+02, 4387 iterations, 0.55 seconds (0.74 work units)

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

     0     0  262.23552    0 2938          -  262.23552      -     -    1s
     0     0  274.38876    0 2938          -  274.38876      -     -    5s
H    0     0                       542.0000000  274.39148  49.4%     -   11s
H    0     0                       480.0000000  274.39148  42.8%     -   17s
     0     0  277.75874    0 2685  480.00000  277.75874  42.1%     -   18s
     0     0  277.89612    0 2942  480.00000  277.89612  42.1%     -   18s
     0     0  277.98382    0 2942  480.00000  277.98382  42.1%     -   18s
     0     0  277.98931    0 2942  480.00000  277.98931  42.1%     -   19s
     0     0  278.05374    0 2942  480.00000  278.05374  42.1%     -   19s
     0     0  278.06245    0 2942  480.00000  278.06245  42.1%     -   19s
     0     0  278.07827    0 2942  480.00000  278.07827  42.1%     -   19s
     0     0  278.07941    0 2942  480.00000  278.07941  42.1%     -   19s
     0     0  279.42302    0 2388  480.00000  279.42302  41.8%     -   20s
     0     0  279.71726    0 2856  480.00000  279.71726  41.7%     -   23s
     0     0  279.72782    0 2854  480.00000  279.72782  41.7%     -   23s
H    0     0                       469.0000000  279.72782  40.4%     -   25s
     0     0  281.55505    0 2366  469.00000  281.55505  40.0%     -   26s
     0     0  282.29194    0 2621  469.00000  282.29194  39.8%     -   34s
     0     0  282.36874    0 2689  469.00000  282.36874  39.8%     -   34s
     0     0  282.38733    0 2698  469.00000  282.38733  39.8%     -   34s
     0     0  282.38754    0 2698  469.00000  282.38754  39.8%     -   34s
     0     0  283.74164    0 2438  469.00000  283.74164  39.5%     -   37s
H    0     0                       467.0000000  283.87749  39.2%     -   42s
     0     0  283.87749    0 2529  467.00000  283.87749  39.2%     -   42s
     0     0  283.91639    0 2580  467.00000  283.91639  39.2%     -   42s
     0     0  283.92327    0 2580  467.00000  283.92327  39.2%     -   42s
     0     0  284.09932    0 2422  467.00000  284.09932  39.2%     -   44s
     0     0  284.14216    0 2463  467.00000  284.14216  39.2%     -   48s
     0     0  284.15235    0 2505  467.00000  284.15235  39.2%     -   48s
     0     0  284.32074    0 2358  467.00000  284.32074  39.1%     -   50s
```

81		0	0	284.35151	0	2441	467.00000	284.35151	39.1%	-	54s
82		0	0	284.35763	0	2445	467.00000	284.35763	39.1%	-	54s
83		0	0	284.56031	0	2146	467.00000	284.56031	39.1%	-	55s
84	H	0	0				446.0000000	284.56444	36.2%	-	80s
85		0	0	284.62063	0	2364	446.00000	284.62063	36.2%	-	88s
86		0	0	284.63984	0	2380	446.00000	284.63984	36.2%	-	88s
87		0	0	284.64541	0	2378	446.00000	284.64541	36.2%	-	88s
88		0	0	284.81740	0	2120	446.00000	284.81740	36.1%	-	90s
89		0	0	284.89309	0	2320	446.00000	284.89309	36.1%	-	94s
90		0	0	284.91073	0	2274	446.00000	284.91073	36.1%	-	95s
91		0	0	284.91243	0	2319	446.00000	284.91243	36.1%	-	95s
92		0	0	285.12163	0	2277	446.00000	285.12163	36.1%	-	96s
93		0	0	285.14703	0	2314	446.00000	285.14703	36.1%	-	103s
94		0	0	285.14897	0	2320	446.00000	285.14897	36.1%	-	103s
95		0	0	285.38952	0	2213	446.00000	285.38952	36.0%	-	105s
96		0	0	285.42014	0	2268	446.00000	285.42014	36.0%	-	124s
97		0	0	285.42940	0	2267	446.00000	285.42940	36.0%	-	124s
98		0	0	286.21977	0	2261	446.00000	286.21977	35.8%	-	126s
99		0	0	286.25013	0	2227	446.00000	286.25013	35.8%	-	168s
100		0	0	286.25339	0	2079	446.00000	286.25339	35.8%	-	168s
101		0	0	286.92756	0	2066	446.00000	286.92756	35.7%	-	169s
102		0	0	286.95516	0	1991	446.00000	286.95516	35.7%	-	188s
103		0	0	286.96079	0	2103	446.00000	286.96079	35.7%	-	189s
104		0	0	287.11085	0	1990	446.00000	287.11085	35.6%	-	193s
105		0	0	287.46764	0	2110	446.00000	287.46764	35.5%	-	238s
106		0	0	287.82556	0	2020	446.00000	287.82556	35.5%	-	240s
107		0	0	287.85883	0	2150	446.00000	287.85883	35.5%	-	240s
108		0	0	287.86185	0	2147	446.00000	287.86185	35.5%	-	241s
109		0	0	288.03785	0	2087	446.00000	288.03785	35.4%	-	245s
110		0	0	288.07370	0	2118	446.00000	288.07370	35.4%	-	290s
111		0	0	288.07745	0	2128	446.00000	288.07745	35.4%	-	291s
112		0	0	288.25025	0	2061	446.00000	288.25025	35.4%	-	295s
113		0	0	288.29622	0	1951	446.00000	288.29622	35.4%	-	321s
114		0	0	288.29858	0	2078	446.00000	288.29858	35.4%	-	322s
115		0	0	288.44404	0	2011	446.00000	288.44404	35.3%	-	326s
116		0	0	288.44734	0	1828	446.00000	288.44734	35.3%	-	332s
117		0	2	288.45318	0	1780	446.00000	288.45318	35.3%	-	341s
118		11	14	307.89177	3	1731	446.00000	288.57848	35.3%	663	346s
119		23	18	289.20456	5	1681	446.00000	288.99275	35.2%	609	350s
120	H	29	22				445.0000000	288.99275	35.1%	486	387s
121	H	30	22				435.0000000	288.99275	33.6%	470	387s
122		172	175	290.77672	36	1686	435.00000	288.99275	33.6%	113	390s
123		629	653	292.22949	142	1590	435.00000	288.99275	33.6%	33.7	395s
124		1009	1025	301.36583	244	1560	435.00000	288.99275	33.6%	30.9	400s
125		1241	1332	315.88824	274	1444	435.00000	288.99275	33.6%	38.4	405s
126		1737	1797	319.17970	354	1206	435.00000	288.99275	33.6%	47.3	410s
127		2360	2405	322.00000	467	910	435.00000	288.99275	33.6%	54.0	416s
128		2630	2605	325.00000	531	816	435.00000	288.99275	33.6%	64.8	420s
129		2889	2850	338.00000	585	783	435.00000	288.99275	33.6%	84.2	425s
130	H	3233	3068				434.0000000	288.99275	33.4%	91.4	447s
131		3234	2769	347.00000	606	1828	434.00000	288.99275	33.4%	91.3	451s
132		3236	2770	324.37851	14	1918	434.00000	288.99275	33.4%	91.3	464s
133	H	3236	2632				433.0000000	406.00000	6.24%	91.3	476s
134		3241	2260	406.00000	364	1828	433.00000	406.00000	6.24%	99.3	480s
135		3246	2044	408.40472	567	1828	433.00000	408.40472	5.68%	102	485s
136		3253	1850	409.10231	241	181	433.00000	409.10231	5.52%	105	490s
137	H	3253	1757				432.0000000	409.46113	5.22%	105	492s
138	H	3253	1669				431.0000000	409.50111	4.99%	105	494s
139		3256	1671	410.13218	51	420	431.00000	410.13218	4.84%	105	495s
140		3259	1673	410.51939	34	510	431.00000	410.51939	4.75%	105	500s
141	H	3259	1589				430.0000000	410.54621	4.52%	105	503s
142		3262	1512	410.73517	11	643	430.00000	410.73517	4.48%	105	505s
143		3263	1513	410.84554	407	617	430.00000	410.84554	4.45%	105	510s
144	H	3268	1440				428.0000000	411.23633	3.92%	104	516s
145	H	3269	1368				427.0000000	411.23633	3.69%	104	517s
146		3273	1371	411.55690	365	709	427.00000	411.55690	3.62%	104	522s
147		3276	1373	411.61767	587	731	427.00000	411.61767	3.60%	104	525s
148		3281	1376	411.74421	155	647	427.00000	411.74421	3.57%	104	532s
149		3282	1377	411.80180	21	656	427.00000	411.80180	3.56%	104	537s
150		3284	1378	411.84558	423	660	427.00000	411.84558	3.55%	104	540s
151	H	3286	1310				426.0000000	412.03250	3.28%	104	563s
152		3288	1312	412.07142	233	626	426.00000	412.07142	3.27%	104	565s
153		3291	1314	412.15491	35	647	426.00000	412.15491	3.25%	104	572s
154		3294	1316	412.22591	269	719	426.00000	412.22591	3.23%	104	575s
155		3296	1317	412.29214	61	712	426.00000	412.29214	3.22%	104	580s
156		3301	1320	412.34716	173	733	426.00000	412.34716	3.20%	103	587s
157		3302	1321	412.43858	240	734	426.00000	412.43858	3.18%	103	591s
158		3304	1322	412.47503	262	726	426.00000	412.47503	3.17%	103	595s
159		3306	1324	412.96350	21	685	426.00000	412.96350	3.06%	103	601s
160		3309	1326	412.99584	12	736	426.00000	412.99584	3.05%	103	609s
161		3310	1326	413.15606	53	638	426.00000	413.15606	3.02%	103	615s
162		3311	1327	413.17689	89	678	426.00000	413.17689	3.01%	103	620s
163		3313	1328	413.18284	4	698	426.00000	413.18284	3.01%	103	626s
164		3314	1329	413.30945	412	657	426.00000	413.30945	2.98%	103	633s

165	3315	1330	413.31645	184	671	426.00000	413.31645	2.98%	103	636s
166	3317	1331	413.32096	534	719	426.00000	413.32096	2.98%	103	644s
167	3318	1332	413.39120	232	579	426.00000	413.39120	2.96%	103	656s
168	3320	1333	413.42418	198	680	426.00000	413.42418	2.95%	103	664s
169	3321	1334	413.42918	366	685	426.00000	413.42918	2.95%	103	667s
170	3322	1334	413.43025	12	740	426.00000	413.43025	2.95%	103	677s
171	3323	1335	413.60865	607	712	426.00000	413.60865	2.91%	103	689s
172	3324	1336	413.62416	399	650	426.00000	413.62416	2.91%	103	693s
173	3325	1336	413.64029	609	634	426.00000	413.64029	2.90%	103	700s
174	3327	1338	413.65138	59	609	426.00000	413.65138	2.90%	103	706s
175	3328	1338	413.65370	29	629	426.00000	413.65370	2.90%	103	713s
176	3329	1339	413.72599	208	654	426.00000	413.72599	2.88%	103	725s
177	3330	1340	413.72599	211	676	426.00000	413.72599	2.88%	103	733s
178	3331	1340	413.73575	424	690	426.00000	413.73575	2.88%	102	742s
179	3332	1341	413.74051	390	679	426.00000	413.74051	2.88%	102	747s
180	3333	1273	413.77329	17	614	426.00000	413.77329	2.87%	102	758s
181	3334	1273	413.78049	606	658	426.00000	413.78049	2.87%	102	763s
182	3335	1274	413.78176	495	636	426.00000	413.78176	2.87%	102	771s
183	3336	1275	413.91606	14	580	426.00000	413.91606	2.84%	102	778s
184	3338	1276	413.95378	332	602	426.00000	413.95378	2.83%	102	780s
185	3343	1279	414.00548	520	594	426.00000	414.00548	2.82%	102	785s
186	3347	1282	414.04844	300	614	426.00000	414.04844	2.81%	102	790s
187	3352	1285	414.16469	292	603	426.00000	414.16469	2.78%	102	795s
188	H 3353	1220				425.0000000	414.77054	2.41%	102	801s
189	3356	1222	414.78520	51	512	425.00000	414.78520	2.40%	102	806s
190	3358	1223	414.80315	270	513	425.00000	414.80315	2.40%	102	811s
191	3360	1225	414.82783	231	533	425.00000	414.82783	2.39%	102	817s
192	3362	1226	414.83385	11	535	425.00000	414.83385	2.39%	102	821s
193	3363	1227	414.85263	407	523	425.00000	414.85263	2.39%	101	833s
194	3364	1227	414.85923	301	533	425.00000	414.85923	2.39%	101	836s
195	3367	1166	414.87560	370	507	425.00000	414.87560	2.38%	101	842s
196	3369	1168	414.88322	41	540	425.00000	414.88322	2.38%	101	846s
197	3371	1169	414.89640	81	543	425.00000	414.89640	2.38%	101	851s
198	3373	1170	414.90623	365	522	425.00000	414.90623	2.38%	101	856s
199	3375	1172	414.92154	508	557	425.00000	414.92154	2.37%	101	861s
200	3381	1062	414.92154	155	500	425.00000	414.92154	2.37%	202	868s
201	3382	1063	414.92154	21	451	425.00000	414.92154	2.37%	202	872s
202	3384	1064	414.92554	423	437	425.00000	414.92554	2.37%	202	875s
203	3386	1065	414.92554	358	518	425.00000	414.92554	2.37%	202	880s
204	3389	1067	414.94550	139	555	425.00000	414.94550	2.37%	202	887s
205	3392	1069	415.00220	303	533	425.00000	415.00220	2.35%	202	894s
206	3393	1070	415.00543	462	503	425.00000	415.00543	2.35%	202	895s
207	3396	1072	415.20446	61	500	425.00000	415.20446	2.30%	201	901s
208	3399	1020	415.74866	351	491	425.00000	415.74866	2.18%	201	907s
209	3402	1022	415.90373	240	493	425.00000	415.90373	2.14%	201	911s
210	3406	1025	415.93145	21	528	425.00000	415.93145	2.13%	201	915s
211	3407	1025	415.95264	120	459	425.00000	415.95264	2.13%	201	920s
212	3410	1027	415.97519	53	494	425.00000	415.97519	2.12%	201	926s
213	3414	1030	416.00637	412	492	425.00000	416.00637	2.12%	200	943s
214	3415	1031	416.02340	184	532	425.00000	416.02340	2.11%	200	947s
215	3417	1032	416.03525	534	512	425.00000	416.03525	2.11%	200	951s
216	3419	1033	416.04870	410	523	425.00000	416.04870	2.11%	200	955s
217	3421	1035	416.06773	366	460	425.00000	416.06773	2.10%	200	961s
218	3425	1037	416.10255	609	488	425.00000	416.10255	2.09%	200	966s
219	3428	1039	416.11702	29	506	425.00000	416.11702	2.09%	199	971s
220	3431	1041	416.14452	424	507	425.00000	416.14452	2.08%	199	975s
221	3434	1043	416.16702	606	499	425.00000	416.16702	2.08%	199	980s
222	3437	1045	416.27617	54	500	425.00000	416.27617	2.05%	199	987s
223	3440	1047	416.32781	103	505	425.00000	416.32781	2.04%	199	991s
224	3442	1049	416.65225	333	471	425.00000	416.65225	1.96%	199	995s
225	3444	1050	416.86101	408	422	425.00000	416.86101	1.92%	199	1001s
226	3447	1052	416.87050	300	418	425.00000	416.87050	1.91%	198	1006s
227	3450	1054	416.87986	604	439	425.00000	416.87986	1.91%	198	1010s
228	3454	1057	416.88498	529	413	425.00000	416.88498	1.91%	198	1031s
229	3455	1058	infeasible	65		425.00000	416.88498	1.91%	257	1046s
230	3457	1060	417.52351	66	311	425.00000	417.04465	1.87%	261	1050s
231	3475	1067	417.90778	70	255	425.00000	417.58466	1.74%	267	1055s
232	3581	1090	418.02929	80	249	425.00000	417.65415	1.73%	284	1060s
233	3663	1108	418.20127	89	258	425.00000	417.66943	1.72%	297	1065s
234	3751	1135	418.36608	102	290	425.00000	417.66943	1.72%	316	1070s
235	3888	1150	418.57305	119	294	425.00000	417.66943	1.72%	339	1075s
236	4052	1161	422.75456	136	193	425.00000	417.66943	1.72%	352	1080s
237	4238	1162	419.90048	157	193	425.00000	417.66943	1.72%	361	1085s
238	4359	1174	420.23790	172	166	425.00000	417.69015	1.72%	380	1090s
239	4581	1270	418.00000	99	206	425.00000	417.71118	1.72%	397	1096s
240	4842	1395	419.00000	128	193	425.00000	417.71118	1.72%	394	1101s
241	4989	1442	420.00000	149	144	425.00000	417.71118	1.72%	399	1107s
242	5070	1463	cutoff	163		425.00000	418.00000	1.65%	402	1112s
243	5179	1487	421.00000	115	121	425.00000	418.00000	1.65%	402	1118s
244	5265	1517	420.00000	112	161	425.00000	418.00000	1.65%	407	1124s
245	5366	1579	424.00000	87	124	425.00000	418.00000	1.65%	411	1133s
246	5521	1602	cutoff	104		425.00000	418.00000	1.65%	412	1146s
247	5631	1634	420.08826	132	172	425.00000	418.00000	1.65%	415	1159s
248	5738	1684	418.00735	79	259	425.00000	418.00000	1.65%	419	1171s

```
  5838  1724  419.00000  106  182  425.00000  418.33643  1.57%   424 1182s
  5956  1749  421.36625   80  233  425.00000  418.70645  1.48%   430 1195s
  6100  1742  420.00000  125  156  425.00000  418.72048  1.48%   437 1200s

Cutting planes:
  Learned: 82
  Gomory: 6
  Lift-and-project: 13
  Cover: 1
  Implied bound: 44
  Clique: 1
  MIR: 255
  Mixing: 1
  StrongCG: 39
  Flow cover: 416
  Zero half: 166
  RLT: 39
  Relax-and-lift: 868
  BQP: 2
  PSD: 1

Explored 6155 nodes (2728947 simplex iterations) in 1200.20 seconds (1097.96 work units)
Thread count was 8 (of 8 available processors)

Solution count 3: 425 425 425

Time limit reached
Best objective 4.250000000000e+02, best bound 4.190000000000e+02, gap 1.4118%

Output one feasible solution with limited computation time

Optimization was stopped with status 9

Number of solution stored: 3
   425  425  425

Obj = 425.0

Solutions:
    The total pi =  166.0
    The total duration time in berth stage =  116.0
    The total duration time in quay crane scheduling stage =  33.0
    The total departure time in berth stage=  254.0
    The total departure time in quay crane scheduling stage =  171.0
    The total wasted crane work hour according QC0=  6.120249275538225
    The last depature time in quay crane scheduling stage =  27.0

The specific solution are as follows:
    Vessel i: 0:     li: 4,          pi: 20-24,              ai-di: 10-34,           taoi-deltai: 10-34,             periodi: 24,            taoPi_SP-deltaPi_SP: 10-18,             periodPi: 8,            c_i: 6248261,           dowork: 6327456,        fa_i: 3
    Vessel i: 1:     li: 5,          pi: 0-5,                ai-di: 18-39,           taoi-deltai: 18-25,             periodi: 7,             taoPi_SP-deltaPi_SP: 18-20,             periodPi: 2,            c_i: 1704076,           dowork: 1845508,        fa_i: 4
    Vessel i: 2:     li: 5,          pi: 10-15,              ai-di: 23-44,           taoi-deltai: 24-38,             periodi: 14,            taoPi_SP-deltaPi_SP: 24-27,             periodPi: 3,            c_i: 3666311,           dowork: 3954660,        fa_i: 4
    Vessel i: 3:     li: 5,          pi: 5-10,               ai-di: 9-33,            taoi-deltai: 9-24,              periodi: 15,            taoPi_SP-deltaPi_SP: 9-13,              periodPi: 4,            c_i: 3824308,           dowork: 3954660,        fa_i: 4
    Vessel i: 4:     li: 5,          pi: 29-34,              ai-di: 19-43,           taoi-deltai: 19-27,             periodi: 8,             taoPi_SP-deltaPi_SP: 19-21,             periodPi: 2,            c_i: 1967956,           dowork: 2240974,        fa_i: 4
    Vessel i: 5:     li: 5,          pi: 10-15,              ai-di: 15-39,           taoi-deltai: 15-23,             periodi: 8,             taoPi_SP-deltaPi_SP: 15-17,             periodPi: 2,            c_i: 1964240,           dowork: 2109152,        fa_i: 4
    Vessel i: 6:     li: 5,          pi: 24-29,              ai-di: 17-38,           taoi-deltai: 17-24,             periodi: 7,             taoPi_SP-deltaPi_SP: 17-19,             periodPi: 2,            c_i: 1761269,           dowork: 1845508,        fa_i: 4
    Vessel i: 7:     li: 5,          pi: 15-20,              ai-di: 9-63,            taoi-deltai: 9-27,              periodi: 18,            taoPi_SP-deltaPi_SP: 9-15,              periodPi: 6,            c_i: 4521820,           dowork: 4745592,        fa_i: 4
    Vessel i: 8:     li: 5,          pi: 24-29,              ai-di: 8-50,            taoi-deltai: 8-15,              periodi: 7,             taoPi_SP-deltaPi_SP: 8-10,              periodPi: 2,            c_i: 1643192,           dowork: 1713686,        fa_i: 4
    Vessel i: 9:     li: 5,          pi: 29-34,              ai-di: 9-54,            taoi-deltai: 9-17,              periodi: 8,             taoPi_SP-deltaPi_SP: 9-11,              periodPi: 2,            c_i: 2063170,           dowork: 2240974,        fa_i: 4
TimeSolveModel: 1210.000000

TimeAll: 1216.000000
```