1. 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=15453
2.
3. import sys; print('Python %s on %s' % (sys.version, sys.platform))
4. 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'])
5.
6. PyDev console: starting.
7.
8. Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
9. >>> runfile('E:/1 □□□□/3 □□□□□/1 □□□□□□□/1 □□□□□□□□/1_□□□□□□_□□□□/1_LW _□□□□1/4 □□□□□/3 python_code/9 Code for this paper/main_ECCG_deterministic.py', wdir='E:/1 □□□□/3 □□□□□/1 □□□□□□□/1 □□□□□□□□/1_□□□□□□_□□□□/1_LW _□□□□1/4 □□□□□/3 python_code/9 Code for this paper')
10. Backend TkAgg is interactive backend. Turning interactive mode on.
11. Waiting 5s......
12.
13. Optimize the  ./R_9_8.xlsx  instance by ECCG for deterministic model
14.
15. Set parameter MIPGap to value 0.01
16.     Master protblem status = 2 , is Optimal and MP obj = 471.0
17. The initial lb = -inf     ub = inf
18.
19. The current iteration cnt = 0
20.     The SP model was solved Optimal 2 and SPObj = 471.0
21.     Deterministic Sub problem Status= 2 , is Optimal
22.     Master protblem status = 2 , is Optimal
23.   lb = 848.0        ub = 848.0
24.   MPObj = 848.0    MP_delete_Hua_Obj = 471.0     Hua = 377.0     SPObj = 471.0     MP_SP_Obj = 377.0     Deter_SP_Obj = 377.0
25.
26. ub - lb = 0.0
27.
28. Iteration cycle stopped by termination criterion 1: Because ub - lb <= eps, the iteration stop, and cnt = 0
29.   i: 0.0  l_i: 4.0   p_i: 18.0   al_i: 22.0     sol_a_i: 22.0 sol_g_i: 0.0   d_i: 36.0   sol_taoi: 22.0    sol_deltai: 36.0  sol_deltai - sol_taoi: 14.0  sol_taoP: 22.0  sol_deltaP: 25.0    sol_deltaP - sol_taoP: 3.0  cI_i: 3576403.0  sol_c_i: 3576403.0  sol_gp_i: 0.0  total work: 3691016.0   wasted work: 0.43472637344297616
30.   i: 1.0  l_i: 6.0   p_i: 28.0   al_i: 44.0     sol_a_i: 44.0 sol_g_i: 0.0   d_i: 59.0   sol_taoi: 44.0    sol_deltai: 59.0  sol_deltai - sol_taoi: 15.0  sol_taoP: 44.0  sol_deltaP: 49.0    sol_deltaP - sol_taoP: 5.0  cI_i: 3758093.0   sol_c_i: 3758093.0  sol_gp_i: 0.0  total work: 4613770.0   wasted work: 3.2455773694830907
31.   i: 2.0  l_i: 5.0   p_i: 19.0   al_i: 60.0     sol_a_i: 60.0 sol_g_i: 0.0   d_i: 74.0   sol_taoi: 60.0    sol_deltai: 74.0  sol_deltai - sol_taoi: 14.0  sol_taoP: 60.0  sol_deltaP: 65.0    sol_deltaP - sol_taoP: 5.0  cI_i: 3485361.0   sol_c_i: 3485361.0  sol_gp_i: 0.0  total work: 3822838.0   wasted work: 1.280048095158623
32.   i: 3.0  l_i: 6.0   p_i: 13.0   al_i: 62.0     sol_a_i: 62.0 sol_g_i: 0.0   d_i: 76.0   sol_taoi: 62.0    sol_deltai: 76.0  sol_deltai - sol_taoi: 14.0  sol_taoP: 62.0  sol_deltaP: 64.0    sol_deltaP - sol_taoP: 2.0  cI_i: 3674552.0   sol_c_i: 3674552.0  sol_gp_i: 0.0  total work: 3691016.0   wasted work: 0.062447846338244
33.   i: 4.0  l_i: 4.0   p_i: 24.0   al_i: 17.0     sol_a_i: 17.0 sol_g_i: 0.0   d_i: 36.0   sol_taoi: 17.0    sol_deltai: 36.0  sol_deltai - sol_taoi: 19.0  sol_taoP: 17.0  sol_deltaP: 23.0    sol_deltaP - sol_taoP: 6.0  cI_i: 4775747.0   sol_c_i: 4775747.0  sol_gp_i: 0.0  total work: 4877414.0   wasted work: 0.38562227852710473
34.   i: 5.0  l_i: 7.0   p_i: 6.0  al_i: 51.0     sol_a_i: 51.0 sol_g_i: 0.0   d_i: 63.0   sol_taoi: 51.0    sol_deltai: 61.0  sol_deltai - sol_taoi: 10.0  sol_taoP: 51.0  sol_deltaP: 54.0    sol_deltaP - sol_taoP: 3.0  cI_i: 2421688.0   sol_c_i: 2421688.0  sol_gp_i: 0.0  total work: 3163728.0   wasted work: 2.8145529577763955
35.   i: 6.0  l_i: 7.0   p_i: 0.0  al_i: 18.0     sol_a_i: 18.0 sol_g_i: 0.0   d_i: 31.0   sol_taoi: 18.0    sol_deltai: 28.0  sol_deltai - sol_taoi: 10.0  sol_taoP: 18.0  sol_deltaP: 21.0    sol_deltaP - sol_taoP: 3.0  cI_i: 2631858.0   sol_c_i: 2631858.0  sol_gp_i: 0.0  total work: 2636440.0   wasted work: 0.017379496593891763
36.   i: 7.0  l_i: 6.0   p_i: 0.0  al_i: 44.0     sol_a_i: 44.0 sol_g_i: 0.0   d_i: 67.0   sol_taoi: 44.0    sol_deltai: 61.0  sol_deltai - sol_taoi: 17.0  sol_taoP: 44.0  sol_deltaP: 49.0    sol_deltaP - sol_taoP: 5.0  cI_i: 4244036.0   sol_c_i: 4244036.0  sol_gp_i: 0.0  total work: 5272880.0   wasted work: 3.902398689141418
37.   i: 8.0  l_i: 5.0   p_i: 13.0   al_i: 23.0     sol_a_i: 23.0 sol_g_i: 0.0   d_i: 44.0   sol_taoi: 23.0    sol_deltai: 40.0  sol_deltai - sol_taoi: 17.0  sol_taoP: 23.0  sol_deltaP: 27.0    sol_deltaP - sol_taoP: 4.0  cI_i: 4380670.0   sol_c_i: 4380670.0  sol_gp_i: 0.0  total work: 4481948.0   wasted work: 0.38414680402360757
38. Time: 82.000000
39.
40.
41.
42.