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=6360

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_5_4.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 = 233.0

17 The initial lb = -inf   ub = inf

18

19 The current iteration cnt = 0

20   The SP model was solved Optimal 2 and SPObj = 233.0

21   Deterministic Sub problem Status= 2 , is Optimal

22   Master protblem status = 2 , is Optimal

23   lb = 398.0   ub = 398.0

24   MPObj = 398.0   MP_delete_Hua_Obj = 233.0   Hua = 165.0   SPObj = 233.0   MP_SP_Obj = 165.0   Deter_SP_Obj = 165.0

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: 7.0 p_i: 7.0 al_i: 36.0   sol_a_i: 36.0 sol_g_i: 0.0 d_i: 49.0 sol_taoi: 36.0   sol_deltai: 47.0 sol_deltai - sol_taoi: 11.0 sol_taoP: 36.0 sol_deltaP: 38.0   sol_deltaP - sol_taoP: 2.0 cl_i: 2872279.0   sol_c_i: 2872279.0   sol_gp_i: 0.0 total work: 3427372.0   wasted work: 2.105464186554596

30   i: 1.0 l_i: 7.0 p_i: 14.0 al_i: 26.0   sol_a_i: 26.0 sol_g_i: 0.0 d_i: 43.0 sol_taoi: 26.0   sol_deltai: 41.0 sol_deltai - sol_taoi: 15.0 sol_taoP: 26.0 sol_deltaP: 31.0   sol_deltaP - sol_taoP: 5.0 cl_i: 3842866.0   sol_c_i: 3842866.0   sol_gp_i: 0.0 total work: 3954660.0   wasted work: 0.4240339245345997

31   i: 2.0 l_i: 6.0 p_i: 21.0 al_i: 32.0   sol_a_i: 32.0 sol_g_i: 0.0 d_i: 60.0 sol_taoi: 32.0   sol_deltai: 58.0 sol_deltai - sol_taoi: 26.0 sol_taoP: 32.0 sol_deltaP: 36.0   sol_deltaP - sol_taoP: 4.0 cl_i: 6846380.0   sol_c_i: 6846380.0   sol_gp_i: 0.0 total work: 7382032.0   wasted work: 2.0317245983219796

32   i: 3.0 l_i: 6.0 p_i: 27.0 al_i: 48.0   sol_a_i: 48.0 sol_g_i: 0.0 d_i: 79.0 sol_taoi: 48.0   sol_deltai: 72.0 sol_deltai - sol_taoi: 24.0 sol_taoP: 48.0 sol_deltaP: 55.0   sol_deltaP - sol_taoP: 7.0 cl_i: 6172975.0   sol_c_i: 6172975.0   sol_gp_i: 0.0 total work: 6459278.0   wasted work: 1.085945441580313

33   i: 4.0 l_i: 7.0 p_i: 0.0 al_i: 1.0   sol_a_i: 1.0 sol_g_i: 0.0 d_i: 21.0 sol_taoi: 1.0 sol_deltai: 15.0 sol_deltai - sol_taoi: 14.0 sol_taoP: 1.0 sol_deltaP: 5.0 sol_deltaP - sol_taoP: 4.0 cl_i: 3438605.0   sol_c_i: 3438605.0   sol_gp_i: 0.0 total work: 3691016.0   wasted work: 0.9573933030905312

34 Time: 19.000000

35

36

37

38