

FAQ PY119 : boundary surface を作成する

```

10 #  

11 #-----  

12  

13 import sys  

14 print("Python version is ", sys.version)  

15  

16 from fv import *  

17  

18  

19 print ("---- Python Sample PY119 ----")  

20  

21 ## define data input table  

22 data_input_table = [  

23     'data_format' : "unstructured",  

24     'input_parameters' : [  

25         'name' : './rect_duct_001.uns',  

26         'options' : [  

27             'input_mode' : "replace",  

28             #'transient' : "on"  

29             'transient' : "off"  

30         ],  

31     ],  

32 ]  

33  

34  

35 ## call function to read dataset  

36 read_dataset(data_input_table)  

37  

38 ## define boundary tableA  

39 boundary_tableA = [  

40     'dataset' : 1,  

41     'geometric_color' : 4,  

42     'visibility' : "on",  

43     #'scalar_func' : "temperature",  

44     'display_type' : "smooth_shading",  

45 ]  

46  

47  

48 ## create boundary surface as handle name 'boundA'  

49 boundA=create_boundary(boundary_tableA)  

50  

51  

52

```

データセット情報の用意

データセットの読み込み

boundary surface情報の用意

boundary surface の作成

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```

48 ↓
49 ## create boundary surface as handle name 'boundA' ↓
50 boundA=create_boundary(boundary_tableA) ↓
51 ↓
52 ↓
53 ## detect all boundary types↓
54 Btype=get_all_boundary_types(1, boundA) ↓
55 ↓
56 ↓
57 ## list up all boundary types↓
58 print(" ----- key list -----") ↓
59 for key in Btype.keys():↓
60     print (key) ↓
61 print("") ↓
62 ↓
63 print(" ----- value list -----") ↓
64 for value in Btype.values():↓
65     print (value) ↓
66 print("") ↓
67 ↓
68 ↓
69 print(" ----- item list -----") ↓
70 for key, value in Btype.items():↓
71     print (key, ":", value) ↓
72 print("") ↓
73 ↓
74 ↓
75 ## insert 'types' key into 'boundary_tableA' ↓
76 boundary_tableA ['types'] = Btype ↓
77 ↓
78 ↓
79 ## modify 'boundA' handle↓
80 modify(boundA, boundary_tableA) ↓
81 ↓

```

既存 boundary surface から
boundary type 情報を
query 取得

得た boundary type 情報の
確認表示→次ページ

boundary surface情報に
boundary types キーの追加

既存 boundary surface の修正更新

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The screenshot shows a terminal window titled "FIELDVIEW for Windows Console". The console output is as follows:

```
bit (Intel)"]
---- Python Sample PY119 ----
Unstructured grid 1 has 2106 nodes and 1584 elements.
----- key list -----
1
2
3
4
n
----- value list -----
Inlet-1
Outlet-2
Wall-0 (Implicit)
Baffle-0
4
----- item list -----
(1, '::', 'Inlet-1')
(2, '::', 'Outlet-2')
(3, '::', 'Wall-0 (Implicit)')
(4, '::', 'Baffle-0')
('n', '::', 4)
```

The text is highlighted with three nested rectangular boxes: a red box around the "key list", an orange box around the "value list", and a blue box around the "item list".