

4
5 NAME

6 copy_floorplan

7 Copies the floorplan data from the **design** view of source **design**
8 label to the **design** view of the target **design** label in the same
9 **or** a different **library**.

10
11 SYNTAX

12 collection copy_floorplan

13 [-to_block top_block]

14 -from_block from_top_block

15 [-objects objects]

16 [-include include_list]

17 [-exclude exclude_list]

18 [-hierarchical]

19 [-force]

20 [-verbose]

21
22 Data Types

23 top_block string

24 from_top_block string

25 objects collection

26 include_list list

27 exclude_list list

28
29 ARGUMENTS

30 **-force** Forces copying of those floorplan objects of source block to the
31 destination block even **if** they already exist. To check existing
32 floorplan objects, names are matched. In the **default** mode,
33 matching objects are **not** copied.

34
35 **-from_block from_top_block**

36 Specifies the source **design** label name **with** optional **library**,
37 block **and** label specifications. The from_top_block specification
38 is as follows:

39
40 [libName:]blockName[/labelName]

41
42 If the **library** specification is **not** present, the current **library**
43 is used. If label specification is **not** present, then the
44 **default** label is used. This is a required option.

45
46 **-to_block top_block**

47 Specifies the destination **design** label name **with** optional
48 **library** **and** label specifications. The top_block specification
49 is as follows:

50
51 [libName:]blockName[/labelName]

52
53 If the **library**, block, **or** label specifications are **not** present,
54 the values from the source block are used. By **default**, the cur-
55 rent_block is used as the destination.

56
57 **-include include_list**

58 Specifies the types of floorplan data to copied to the **output**
59 **design** view. This option cannot be specified together **with** the
60 **-exclude** **or** **-objects** options. If **this** option is **not** specified,
61 all types are included by **default**.

62
63 The supported types are:64
65 o blockages66
67 o bounds68
69 o cells

```

70
71         o corridors
72
73         o die_area
74
75         o edit_groups
76
77         o io_guides
78
79         o macros
80
81         o module_boundaries
82
83         o pin_guides
84
85         o pins
86
87         o route_guides
88
89         o rows
90
91         o tracks
92
93         o vias
94
95         o scan_chains
96
97         o routing_directions
98
99         o voltage_areas
100
101         o fills
102
103         o pg_metal_fills
104
105         o routing_rules
106
107         o pg_regions
108
109         o port
110
111         o supernet
112
113         o bundle
114
115         o topology_plan
116
117         o net_estimation_rule
118
119         Specify -include macros to output only macro cells and skip
120         standard cells. Specify -include cells to output all cells.
121
122     -exclude exclude_list
123         Specifies the types of data to exclude from the output. This
124         option cannot be specified with the -include option or -objects
125         options. If this option is specified, the command writes all
126         types, except the types specified in exclude_list. The allowed
127         data types are the same as for the -include option.
128
129     -objects objects
130         Specifies the floorplan objects to be copied to the destination
131         design view. Supported object types are:
132
133         o "block"
134
135         o "design"
136
137         o "routing_blockage"
138

```

- 139 o "shaping_blockage"
- 140
- 141 o "placement_blockage"
- 142
- 143 o "bound"
- 144
- 145 o "cell"
- 146
- 147 o "routing_corridor"
- 148
- 149 o "core_area"
- 150
- 151 o "edit_group"
- 152
- 153 o "fill_cell"
- 154
- 155 o "io_guide"
- 156
- 157 o "via"
- 158
- 159 o "shape"
- 160
- 161 o "net"
- 162
- 163 o "pin_guide"
- 164
- 165 o "pg_region"
- 166
- 167 o "routing_guide"
- 168
- 169 o "site_row"
- 170
- 171 o "site_array"
- 172
- 173 o "track"
- 174
- 175 o "voltage_area"
- 176
- 177 o "routing_rule"
- 178
- 179 o "port"
- 180
- 181 o "supernet"
- 182
- 183 o "bundle"
- 184
- 185 o "topology_plan"

187 -verbose

188 This option enables display of verbose messages.

189

190 -hierarchical

191 This option enables copying of the floorplan objects hierarchi-
 192 cally. This option is mutually exclusive with "-objects".

193 DESCRIPTION

194 This command copies the floorplan data from the **design** view of source
 195 **design** label to the **design** view of the target **design** label with the
 196 same **or** different **library and** block. The command fails **if** the destina-
 197 tion **library** is **not** open **or** is opened in read-only mode. The command
 198 also fails **if** you **specify** an illegal name **for** the source **or** destination
 199 **design** label **or** **if** the **design** view is **not** available **for** a particular
 200 **design** label. If successful, the destination block is returned.

201 This command returns the block **if** successful, **or** 0 **if not**. If an ille-
 202 gal name is given **for** the source **or** destination block names, a Tcl
 203 error is raised.

204 The operation happens only between **design** views. If the destination

design is **not** specified, the current block is used as the destination
design if the view is **design** view.

The command only copies the floorplan objects which exist in the source
but **not** in the destination. To find whether a particular floorplan
object exists, the name is matched. If the name of a particular floor-
plan object already exists, the object is skipped **and** is **not** copied.
This can be overridden by specifying the **-force** option.

EXAMPLES

This example copies floorplan data of **design** view of **design** label Top
to **design** view of block Top2. Only the floorplan objects **not** present in
Top2 are copied.

```
prompt> copy_floorplan -from_block lib:Top/place_opt -to_block lib:Top2/  
place_opt  
{"lib:Top2.design"}
```

This example copies a block Top into a **new library** MyOtherDesigns.
Only the floorplan objects **not** present in Top2 are copied MyOtherDe-
signs:TOPlace_opt.

```
prompt> copy_floorplan -from_block lib:Top/place_opt -to_block MyOtherDesigns:  
TOPlace_opt  
  
{"MyOtherDesigns:Top.design"}
```

SEE

ALSO

```
get_blocks(2)  
open_block(2)  
open_lib(2)  
remove_blocks(2)  
reopen_block(2)  
copy_block(2)  
save_block(2)
```

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icc2_shell>