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1  icc2_shell> man set_floorplan_unplaceable_area_extension_rules
2  2. Synopsys Commands Command Reference
3      set_floorplan_unplaceable_area_extension_rules
4
5  NAME
6      set_floorplan_unplaceable_area_extension_rules
7      Defines an unplaceable area extension floorplan rule.
8
9  SYNTAX
10     set_floorplan_unplaceable_area_extension_rules
11         -object_types type_list
12         -lib_cells lib_cells
13         -sides side_list
14         -value distance
15         -name rule_name
16         [-follow_rotations]
17
18     Data Types
19         type_list      list
20         lib_cells      collection
21         side_list      list
22         distance       float
23         rule_name      string
24
25  ARGUMENTS
26     -object_types type_list
27         Specifies the list of object types for the unplaceable area
28         extension floorplan rule. The area of these type of objects will
29         be checked. Valid values for this option are std_cell_area and
30         hard_macro. This option is mutually exclusive with -lib_cells
31         and you must specify one or the other.
32
33     -lib_cells lib_cells
34         Specifies the collection of library cells for the unplaceable
35         area extension floorplan rule. This option is mutually exclusive
36         with -object_types and you must specify one or the other.
37
38     -sides side_list
39         Specifies the sides or directions in which the target object in
40         specified floorplan rules is to be extended. Valid values are
41         all, bottom, horizontal, left, right, top and vertical. The hor-
42         izontal argument includes both left and right. Similarly, the
43         vertical argument includes both bottom and top. This is a manda-
44         tory option.
45
46     -value distance
47         Specifies the extent by which the target objects of specified
48         floorplan rules will be extended for that particular rule check-
49         ing. This is a mandatory option.
50
51     -name rule_name
52         Specifies the name of the unplaceable area extension floorplan
53         rule. This is a mandatory option.
54
55     -follow_rotations
56         Specifies whether mentioned sides should follow the rotations of
57         macro, that is, if meaning of horizontal or vertical should
58         change when macro has a 90-degree rotations. This option must be
59         used together with -lib_cells or -object_types hard_macro. This
60         is an optional option.
61
62  DESCRIPTION
63     The set_floorplan_unplaceable_area_extension_rules command defines a
64     named unplaceable area extension floorplan rule in the current design.
65     The defined rule is persistent. If another floorplan rule by the same
66     name exists then the command errors out.
67
68     If an unplaceable area extension rule is defined for a library cell and
69     another unplaceable area extension rule is defined for a hard macro

```

70 then the rule defined **for** the **library cell** will take precedence over
71 the rule defined **for** hard macro when checks are done **for** that **library**
72 **cell**.
73

74 EXAMPLES

75 The following example creates an unplaceable area extension rule named
76 a1 to check the area of block boundary **and** hard macro. The area can't
77 be greater than 2400 **and** can't lie between 370 **and** 790.
78

```
79 prompt> set_floorplan_area_rules -name a1 \  
80 -object_types hard_macro -sides {top left} \  
81 -value 2000  
82
```

83 SEE ALSO

```
84 remove_floorplan_rules(2)  
85 report_floorplan_rules(2)  
86 set_floorplan_enclosure_rules(2)  
87 set_floorplan_extension_rules(2)  
88 set_floorplan_exception_rules(2)  
89 set_floorplan_forbidden_rules(2)  
90 set_floorplan_halo_rules(2)  
91 set_floorplan_length_rules(2)  
92 set_floorplan_spacing_rules(2)  
93 set_floorplan_width_rules(2)  
94
```

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97 icc2_shell>
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