```
icc2 shell> man check floorplan rules
 2
     2. Synopsys Commands
                                                                 Command Reference
 3
                                 check floorplan rules
 4
 5
    NAME
 6
            check_floorplan_rules
 7
                   Reports violations of related floorplan spacing, enclosure,
 8
                   halo, length, area, width rules and track constraints.
9
10
   SYNTAX
           collection check floorplan rules
11
                   [list of rule names]
12
13
                   [-object types list of object types]
                   [-lib cells collection of lib cells]
14
                   [-exclude_rules list_of_rule names]
15
                   [-exclude_lib_cells collection_of_lib_cells]
16
17
                   [-objects macro_list]
18
                   [-bbox { {llx lly} {urx ury} }]
19
                   [-error view view name]
20
                   [-enable rule override true | false]
21
22
        Data Types
23
           list of rule names
                                      list
2.4
           list of object types
                                      list
25
            collection of lib cells
                                      list
26
           macro list
                                      list
27
            llx
                                       float
28
           llv
                                      float
29
                                      float
           urx
30
                                      float
           ury
31
           view name
                                      string
32
33 ARGUMENTS
            list of rule names
34
35
                   Specifies the list of floorplan rule names to report related
36
                   violations. By default is checking all floorplan rules set by
37
                   user.
38
39
            -object_types list_of_object_types
                   Report floorplan rule violations on the listed object types. The
40
41
                   object types include hard macro, std cell area, soft macro,
42
                   block boundary, core area. This option cannot be specified with
43
                   the -bbox and -objects options.
44
45
            -lib cells collection of lib cells
46
                   Report floorplan rule violations on the listed lib cells. This
47
                   option cannot be specified with the -bbox, -objects
48
                   -exclude lib cells options.
49
50
           -exclude_rules list_of_rule_names
51
                   Specifies the list of floorplan rules that will not report vio-
52
                   lations.
53
54
            -exclude lib cells collection of lib cells
55
                   Specified the lib cells that the violations will not be reported
56
                   on them. If this option is specified with "-exclude rules", only
                                                       "-exclude lib cells" and
57
                         violations
                                              the
                   t.he
                                       match
58
                   "-exclude rules" will not be reported. This option cannot be
59
                   specified with the -bbox, -objects and -lib_cells options.
60
61
            -objects macro list
62
                   Report floorplan rule violations on the listed macros. This
63
                   option cannot be specified with the -bbox, -object types,
64
                   -exclude lib cells and -lib cells options.
65
66
            -bbox { {llx lly} {urx ury} }
67
                   Report floorplan rule violations of macros that fully inside
68
                   this region. This option cannot be specified with the -objects,
69
                   -object types, -exclude lib cells and -lib cells options.
```

```
71
             -error view view name
 72
                    Specifies the name of the generated error view. If this options
 73
                     is specified, the command saves the error view data to a file in
                    XML format with the specified name. If the view_name file already exists under the current run directory, the command
 74
 75
                    overwrites the file. If a file extension is specified, it must
 76
 77
                    be ".err", otherwise it is ignored. If no extension is speci-
 78
                    fied, the ".err" extension is appended to the file name. If this
 79
                    options is not specified, an attachment is created/modified and
 80
                     saved in to the design database with the file name
                    "#block name# floorplanRules.err" .
 81
 82
 83
             -enable rule override true | false
                    When set true, if a lib cell has its own rule, the corresponding
 84
                    rules for hard_macro would not apply to instances of this lib_cell; In other words, one or more lib_cell rules to an
 85
 86
 87
                    object type/lib cell of a certain constraint type overrides any
 88
                    general rule to the same object type/lib cell of the same con-
 89
                    straint type. Besides this, when it set true, cmd allow
 90
                    lib cell-routing blockage enclosure rule to override both
 91
                    hard macro-routing blockage enclosure rules and halo rules; Sim-
 92
                    ilarly, allow lib cell-routing blockage halo rule to override
 93
                    both hard macro-routing blockage enclosure rules and halo rules.
 94
                    The default value is false.
 95
 96
     DESCRIPTION
 97
             This command check floorplan rule violations set by the commands:
 98
             set floorplan spacing rules set floorplan enclosure rules set floor-
 99
             plan halo rules
                               set floorplan width rules set floorplan area rules
100
             set track constraint
101
102
     EXAMPLES
             The following command checks floorplan rule 1 on hard and soft macros.
103
104
105
               prompt> check floorplan rules rule 1 -object types {hard macro soft macro}
106
107
             Assuming DTCD lib is the ref lib of a DTCD cell and DTCD cell has the
108
             design type of hard macro, the following command reports all macro cell
109
             violations except for DTCD cells.
110
111
              prompt> set floorplan spacing rules -name R1 \
112
                  -from lib cells DTCD lib -to object types std cell area
113
114
               prompt> set floorplan spacing rules -name R2 \
115
                  -from_object_types hard_macro -to_object_types std_cell_area
116
117
               prompt> check floorplan rules R2 -enable rule override
118
119
     SEE ALSO
120
           set floorplan area rules (2)
121
             set floorplan enclosure rules (2)
122
             set floorplan halo rules (2)
123
             set floorplan spacing rules (2)
124
             set floorplan width rules (2)
125
             set floorplan length rules (2)
126
             remove floorplan rules (2)
127
             report floorplan rules (2)
128
             set track constraint(2)
129
130
                                 Version S-2021.06-SP5
131
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132
      icc2 shell>
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