

## compare\_floorplans

## NAME

compare\_floorplans

Writes a report that lists any differences in objects **and** their locations between the current **design and** floorplan information **for** another **design** written by the write\_floorplan command.

## SYNTAX

```
int compare_floorplans
    [-input dir_name]
    [-verbosity minimum | low | high]
    [-top_level_only]
```

## Data Types

dir\_name **string**

## ARGUMENTS

- input** dir\_name  
Specifies the name of the directory under which the file floorplan\_compare\_data.txt is located. The **default** is ./floorplan. The command writes an error message **and** exits **if** the directory does **not** exist, **or if** the file is missing.
- verbosity** minimum | low | high  
Determines the level of comparison detail to report. The minimum argument prints the number of differences **for** each object **type**. The low argument prints up to five examples **for** each object type. The high argument prints up to 1000 differences of each **type**. By **default**, the level is minimum.
- top\_level\_only**  
Compares only top-level objects **and** skip comparison **for** lower-level objects.

## DESCRIPTION

The compare\_floorplans command creates a report containing a list of objects that are either in floorplan\_compare\_data.txt file but **not** in the **design** database, **or** in the **design** database but **not** in floorplan\_compare\_data.txt. The object types that are considered are macros **and** pins. Feedthrough pins are **not** considered. The command creates a file named compare\_output, in the current directory, that creates lists of **new** objects that are in the existing in database but **not** in the file. For example:

```
set _new_macros [get_cells { macro1_name macro2_name ...}]
set _new_ports {...}
```

For objects in the floorplan\_compare\_data.txt file but **not** in the database, the command outputs names **and** locations **or** boundaries in the same file. The command outputs two levels, **for** example, pins **and** macros at the top level **and inside** blocks. The command skips the **output for** the third level **and** beyond.

Note that the floorplan\_compare\_data.txt file is generated by the write\_floorplan command. The compare\_floorplans command is typical used to compare different versions of the same **design**. For example, **begin** by running the write\_floorplan command on one version of the **design**. Then, load the **new** version **and use** the compare\_floorplans command to determine **if** any differences exist between the two versions.

This command returns 1 on success, 0 otherwise.

## EXAMPLES

The following example writes a report based on comparing the current **design with** the floorplan\_compare\_data.txt file in the script directory.

```
70
71     prompt> compare_floorplans -input script
72
73     The following example prints more detailed information, but outputs
74     data related to the top-level only.
75
76     prompt> compare_floorplans -verbosity high -top_level_only
77
78     SEE ALSO
79         write_floorplan(2)
80
81         Version S-2021.06-SP5
82         Copyright (c) 2022 Synopsys, Inc. All rights reserved.
83     icc2_shell>
84
```