

PLACEMENT

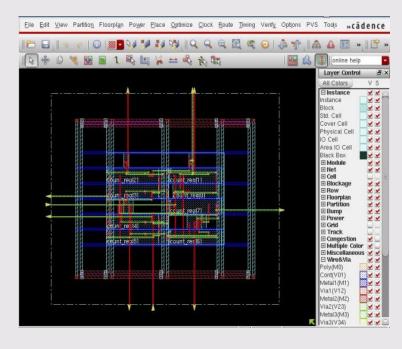


PLACEMENT:-

PLACEMENT IN CADENCE TOOL

Placement is the process of placing standard cells in the rows created at floorplanning stage.

The goal is to minimize the total area and interconnects cost.



WHY PLACEMENT IS REQUIRED:-

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Placement determines the routing ability of a design. A well constructed placement solution will have less routing demand(i.e., shorter total wire length) and will distributes the routing demand more evenly to avoid routing hotspots.

Placement decides the distribution of heat on a die surface. An uneven temperature profile can lead to reliability and timing problems.

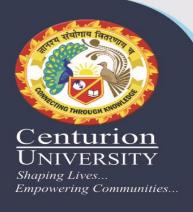
Power consumption is also affected by placement. A good placement solution can be reduce the capacitive load because of the wires (by having shorter wire and larger separation between adjacent wires). Hence the switching power consumption can be reduced.



Floor planned design,

Design libraries,

Design constrains,



THANK YOU