Lecture-11

- 1. What are the advantages of Fiduccia-Mattheyses algorithm over Kernighan-Lin algorithm?
- 2. What are the similarities between Fiduccia-Mattheyses algorithm and Kernighan-Lin algorithm?
- 3. Present the Fiduccia-Mattheyses Algorithm. Find out its time complexity.
- 4. Apply Fiduccia-Mattheyses Algorithm for the problem in question 7.
- 5. Apply Fiduccia-Mattheyses Algorithm for the problem in question 8.
- 6. Apply Fiduccia-Mattheyses Algorithm for the problem in question 10.
- 7. "There is a trade off associated for partitioning with replication." Is it true or false? Justify.
- 8. Discuss how Partitioning is affecting overall delay.
- 9. What do you understand by performance driven partitioning?
- 10. Discuss the approach of clustering in case of partitioning.

Lecture-12

- 11. Define Floorplanning.Define sliceable and non-sliceable floorplan with examples. What are the advantages of sliceable floorplan?
- 12. State with an example how a sliceable floorplan can be represented by a binary tree.
- 13. When an adjacency graph cannot admit a rectangular dual?
- 14. Obtain the hierarchical floorplan tree for the floorplan given in Fig.5.
- 15. Illustrate the steps of rectangular dualization on an inherently non-sliceable graph of n vertices.
- 16. Obtain a rectangular dual of the following adjacency graph.

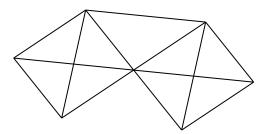


Fig. 3

- 17. Obtain the rectangular dual of the following adjacency graph below of Fig. 4.
- 18. Are the Floorplans obtained in 17 and 18 sliceable?
- 19. Prove that there is a one-to-one correspondence between a sliceable floorplan and a normalized Polish expression.
- 20. Give the adjacency graph for the following floorplan of Fig.5.

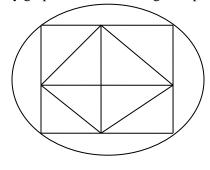


Fig. 4

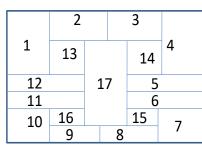


Fig.5