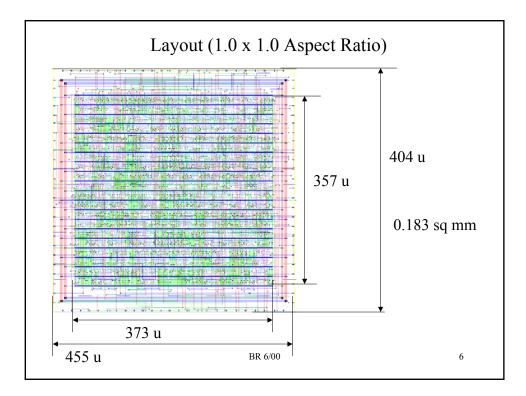
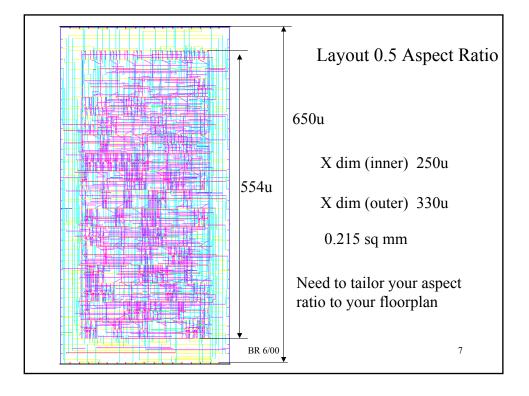
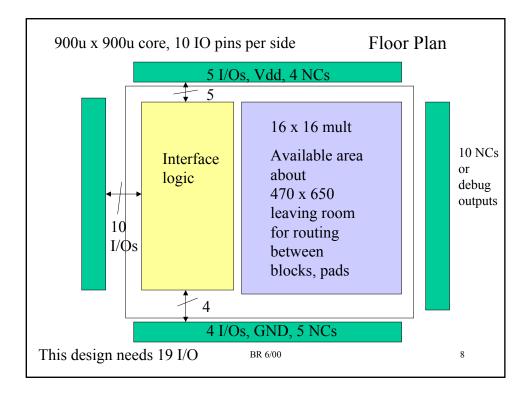
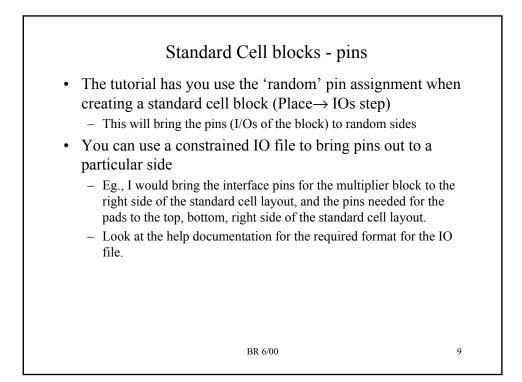


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Needed Area for Multiplier?

The basic multiplier cell is a FA + AND gate. The complexity is about the same as a DFF.

Assume the cell area is about the same the DFF (33u x 36u).

For a CSA multiplier, need a 16 x 15 array (528 u x 540).

Also need room for the Carry-LookAhead adder at the end of the array.

Looks to be a tight fit. The numbers given in the tutorial for the standard cell floorplan concerning the 'block halo' around the layout as well as the row utilization can be adjusted to produce a tighter layout, or other cells added to the library to reduce the total number of cells in the layout.

The message from this is that you will need be concerned with area. $$_{\rm BR\,6/00}$$