

Synopsys and CSR

Realizing the value of increased design productivity

“Synopsys Professional Services helped us optimize our design flow and immediately realize the benefits of faster turn-around time on real designs.”

Robert Young, Digital Design Manager, CSR



CSR is a fabless semiconductor company that designs and manufactures leading edge single-chip Bluetooth and Wi-Fi devices. To fully realize the cost and power savings of a planned process migration to 130 and 90 nm process technologies, CSR turned to Synopsys Professional Services for a detailed audit of CSR's existing design flow.

Synopsys Solution

- Standardization on entire Synopsys Galaxy™ Design Platform
- New, custom methodology development for:
 - Physical synthesis and floorplanning
 - Scripting and constraining
 - Multi-mode test and adaptive scan insertion

Cooperation Benefits

Synopsys consultants worked with CSR's in-house staff to implement new design methodologies that improved overall design productivity and quality of results. These new methods were deployed and quickly impacted real chips—for example, on CSR's new Bluetooth chip design, the logic synthesis turn-around-time was reduced from 15 hours to 1 hour and the die area was reduced by 20%. Additionally, faster runtimes enabled more time for optimization with better performance results.

