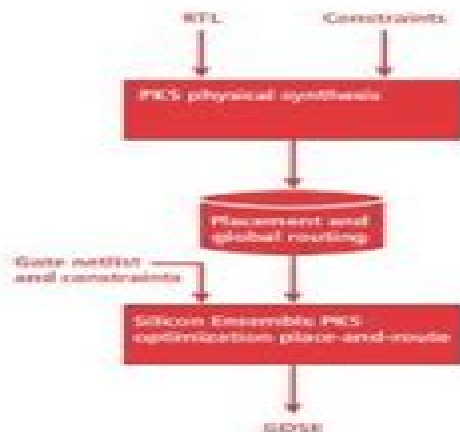


SILICON ENSEMBLE PKS

Cadence® Silicon Ensemble® Physically Knowledgeable Synthesis (PKS) supports and optimizes an RTL/gates-to-GDSII flow. Production-proven and targeted at 130-nanometer designs and above, Silicon Ensemble PKS is ideal for the design and implementation of mainstream integrated circuits (ICs). However, the Cadence Encounter™ digital IC design platform provides the proven tools and methodologies to implement exceedingly complex, high-performance chips at 130 nanometers and below.



SP&R flow

In addition to its conventional place-and-route features — floorplanning, placement, clock tree synthesis, routing, extraction, and timing analysis — the Silicon Ensemble PKS system also includes PKS concurrent optimization, power analysis, and signal integrity (SI) prevention, analysis, and correction capabilities. These features make the Silicon Ensemble PKS system a solid choice for block-based design and implementation.

BENEFITS

- Rapid path to tapeout with native timing and design closure features
- Excellent predictability through consistent core technology engines throughout the flow
- Best-in-class SI features enable correct-by-construction design
- Supports 130-nanometer foundry requirements to ease transition to advanced designs

- Multi-CPU routing for enhanced throughput capabilities
- Production-proven with over 15,000 tapeouts worldwide

COMPLETE RTL-TO-GDSII FLOW

The Silicon Ensemble PKS system is comprised of tightly integrated tools that work in concert to support flows from RTL or gates to GDSII. The RTL-to-GDSII flow begins as PKS synthesizes a physically accurate gate-level netlist. No wireload models are used, and the interconnect delays are based on legal placement and final-quality global routes. A clock tree is also inserted, and post-clock tree optimization is run with the same robust timing engines used consistently throughout the entire flow.

PKS outputs legal placement, clock tree, and global route information to a database that can be forward annotated to the Silicon Ensemble PKS system for final routing. The system reads this

Silicon Ensemble Manual

Yijin Wang



Silicon Ensemble Manual:

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