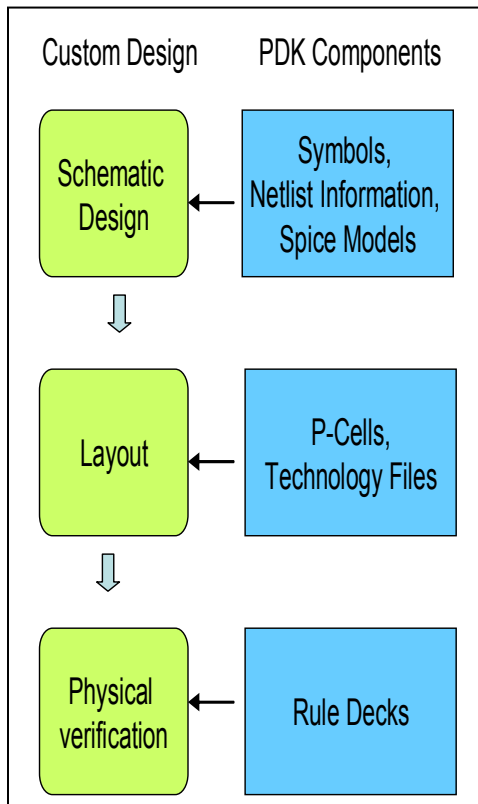


SoftJin Process Design Kit Development Services

With Analog and custom design becoming increasingly complex, there is a high need for foundries to provide a good Process Design Kit (PDK) to increase the productivity of the designers. A good integrated PDK would consist of various components that would aid the designer in Schematic design and simulation, Schematic Driven Layout and Layout Verification using the industry standard tools. In the current industry scenario where a Foundry needs to provide separate PDKs for different EDA tool vendors and at the same time cater to the individual requirements of various design customers, the PDK development and maintenance effort is challenging.

SoftJin's Design Technology Group partners with Foundries and helps them in their PDK Development, Enhancement and Maintenance activities. Some of the specific activities that we can support include:



Parameterized Cell (P-Cell) Development, Enhancement and Customization

- Experience in P-Cell Development based on Cadence SKILL language
 - Interactive User Interface with CDF and Callbacks
 - Reusable cell definitions for future technology migration
 - Migrating older P-Cell flows to more efficient object oriented design constructs
- Quality assurance of P-Cells using industry standard physical verification tools
- Type of devices handled include:
 - Complex devices with parameters such as Length, Width, Finger, Multiplier
 - Several variants of transistors, resistors, capacitors, diodes, inductors, fuses, guard rings, bond pads, anchors, rivets

Support for Schematic Design related PDK components

- Generation of Netlist and schematic views
- Interfacing with different simulation models for various Spice simulators

Others

- Development of utilities to access and modify the Technology File Information
- Capability to develop OpenAccess based C++ P-Cells

Why SoftJin?

- Based upon SoftJin's long experience in EDA tool development services, we bring in good software engineering practices that are central to developing and maintaining PDKs in a systematic manner with high quality.
- As a services company, we are operationally geared to help foundries in undertaking not just one-time PDK development but also ongoing PDK customization, enhancement and maintenance tasks.
- Our vendor neutral leaning ensures that we can work across commercial EDA vendor tools

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