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## **SoftJin Improves Building Blocks for Post-Layout EDA tool Development**

*Nirmaan software toolkit reduces post-layout tool development time by 60%;*

*Demos at DAC to showcase applications*

**SANTA CLARA, Calif. & BANGALORE, India**—July 11, 2006--SoftJin, an EDA (Electronic Design Automation) software development company, today announced enhancements to its software development toolkit for post-layout EDA tool development --**Nirmaan 2.0**. Nirmaan supports in-house tool developers and is being used to develop post-layout and DFM/DFY (Design for Manufacturing/ Design for Yield) software.

Nirmaan allows EDA companies and in-house CAD groups to develop optimized post-layout EDA tools faster. It offers an efficient geometric data organization and fast geometrical operations.

Nirmaan will be demonstrated with a series of applications which were developed using it at the Design Automation Conference in San Francisco, July 24-27 at booth # 1409.

"Our mission is to provide re-usable building blocks for customized EDA software development," remarked Nachiket Urdhwareshe, SoftJin's CEO. "By building customized EDA tools with Nirmaan, tool developers, either at EDA companies or at in-house CAD groups in semiconductor companies, can reduce the time and cost of tool development."

### **Why Nirmaan**

Currently, the only alternative for post-layout EDA tool developers is to develop their own geometric data-model and geometrical operations. This could take approximately 60% of the total development effort and time of the whole tool. Nirmaan is the first and the only offering in the market that provides a ready-made, performance-tuned and customized toolkit for post-layout EDA tool developers.

## **Who Uses Nirmaan**

Nirmaan is used by EDA companies developing post-layout EDA tools as well as semiconductor companies developing in-house EDA tools, or augmenting off-the-shelf available tools.

Current users include DFM and DFY start-ups and CAD groups at IDMs and mask shops.

## **What's New**

The key enhancements in Nirmaan 2.0 over its previous version (introduced in May, 2005) include:

- a) Unique Hybrid data organization to increase the speed of geometrical operations and reduce both in-memory and on-disk data sizes. Results show a 10X speed improvement and data-size reduction over the conventional flattened data organization.
- b) A rich set of geometrical operations and a corresponding C++ Applications Programming Interface (API) provide more flexibility to the post-layout tool developer. A TCL interface is offered for quick prototype development.
- c) Support for all-angle geometries.
- d) Customized virtual memory implementation for optimized handling of huge layout data transfer between disk and main memory to minimize thrashing.
- e) Efficient cache-usage centric algorithms for data traversal and processing
- f) Read and write support for industry mask data formats including MEBES and OASIS.VSB

## **Nirmaan and OpenAccess**

Nirmaan supports the OpenAccess database to provide inter-operability among various IC design tools. The OpenAccess database is suited for representing electronic design information across the logic to GDSII design flow. However, the post-layout tool development challenges require an in-memory data organization that is more lean and customized for representation and processing of geometric information. Also, an ideal infrastructure for post-layout tools needs to have a pre-built rich library of geometrical operations that are designed to take advantage of the underlying data organization. Nirmaan provides these features.

For more information about Nirmaan, please visit [www.softjin.com/Nirmaan](http://www.softjin.com/Nirmaan).

**Price and Availability**

Nirmaan 2.0 is available for Beta evaluation in July 2006. Nirmaan is licensed as object code to EDA tool developers to include, build upon and/or sell as part of their post-layout tools. Yearly Licenses start at \$100,000 (USD).

SoftJin products are sold directly in the USA, Europe and India and through channel partners in Japan and Asia Pacific.

**About SoftJin**

SoftJin Technologies Pvt. Ltd. develops customized EDA tools for the specific requirements of semiconductor and EDA companies using a combination of EDA software development services and Re-usable Building Blocks. SoftJin's customized EDA software development approach offers the advantages of enhanced EDA software capability, flexible capacity and cost savings to customers. SoftJin was recently (June 5, 2006) included in a list of Indian startups to watch by Red Herring magazine. More information is available at [www.softjin.com](http://www.softjin.com).

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Notes to editors: A Nirmaan graphic is available on request.

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