

## ***NEWS RELEASE***

### **Legend Design, Simberian, and IO Methodology Jointly Provide a Complete and Easy-to-use PCB Simulation Solution**

**Anaheim, Calif. — June 4, 2010** – Legend Design Technology, Inc., Simberian Inc., and IO Methodology Inc. today announced a joint solution for PCB design, modeling and simulation, by MSIM simulator with Design Manager simulation environment, Simbeor electromagnetic signal integrity software for interconnect analysis and macro-modeling, SignalMeth waveform analysis tool. With the advantages of ease-of-use, high accuracy, full automation, fast runtime and best price performance, the joint solution enables engineers to complete PCB designs with ensured product quality and high engineering productivity.

MSIM is a high-accuracy circuit simulator for IC, LCD, Package and PCB designs. TSMC has certified MSIM for accuracy and performance on advanced nanometer circuit designs. MSIM Design Manager is an integrated PCB simulation environment for modeling and assembling all interconnects, passive connectors and active IO components into a Spice netlist, generating the PRBS stimulus in various forms, simulating the circuits and post-processing the waveforms for eye diagram analysis. MSIM has supported a broad range of models including IBIS, S-parameter macro-model, Verilog-A and Common Model Interface (CMI), and BSIM3/BSIM4 models etc. To efficiently test the compliance before fabrication, Test Bench automation by simulation will be provided instead of the costly measurements by test equipments. It will cover not only the signal integrity like HDMI, USB3.0 and PCI Express etc., but also PDN and the thermal.

Simberian's Simbeor is the industry-first measurement-validated electromagnetic signal integrity software for de-compositional electromagnetic analysis of PCB and packaging interconnects. It provides a complete set of features for exploration and verification of interconnects on PCBs with the unique broad-band electromagnetic models of transmission lines and via-holes validated with experiments up to 50 GHz for analysis of channels with data rates up to 100 Gb/s. Simbeor produces both S-parameter models and broad-band SPICE macro-models of interconnects for further investigation of a channel with transmitter and receiver models in MSIM circuit simulator.

IO Methodology Inc. is a leading SI modeling tool and service provider for High-speed system designs and simulations. It focuses on high-speed I/O buffer and device modeling for reliable and accurate PCB system simulations. SignalMeth™ is a waveform analysis tool for multi-format simulation and measurement waveforms as well as for behavioral model analysis and visual inspection. Its unique waveform comparison function provides a scientific solution for critical nets and full board inspection purposes.

"Legend Design MSIM with Design Manager, Simberian's Simbeor, and IO Methodology SignalMeth shall provide a complete solution to enable the first-pass

success of PCB designs." said Dr. Yao-Chang Chang, General Manager of Avant Technology, Inc. "With the selection of those tools, users shall have the access to a premier solution for ensuring the quality of PCB design, modeling and simulation."

### **About Legend Design, Simberian and IO Methodology**

For additional information, please visit

[www.LegendDesign.com](http://www.LegendDesign.com)

[www.Simberian.com](http://www.Simberian.com)

[www.IOMeth.com](http://www.IOMeth.com)

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