Panel: EDA Meets .COM: How E-Services Will Change the EDA Business Model

Chair: Jennifer Smith, Dain Rauscher Wessels, San Francisco, CA
Organizers: Tom Quan, Monterey Design Systems, Inc., Sunnyvale, CA
Andrew B. Kahng, University of California, Los Angeles, CA

Abstract

The skyrocketing complexities of SOC design have led to such design bottlenecks as iterations, poor scaling of tools, and inadequate computational power of desktop workstations and servers. At the same time, many organizations face long capital budgeting cycles for new hardware and software, and increased total cost of ownership (software, maintenance, integration, training, etc.) for their design capability. This panel addresses the "dot .com" phenomenon and its associated technology and infrastructure -- e-services -- which offer the promise of new design capabilities for chip designers and new business models for EDA companies. Issues include (1) for EDA, how will e-services transform sales channels, the push to interoperability, or how customer needs are addressed? (2) for ASIC vendors, will e-services change how end users design, and how vendors deploy their services? (3) for e-services providers and investors, what's real, what's the market, and how does this affect valuations and business strategy?

Panelist Statements

Jacques Benkoski
Monterey Design Systems, Inc., Sunnyvale, CA

Current EDA business and licensing models limit the growth of the industry and the strategic value of the industry in the semiconductor "food chain". Perpetual licensing model is either dead or dying and time-based license model is up with multi-year deals. Semiconductor customers are interested in working ASSPs and willing to pay per working chip or per project. Their system customers want to collaborate more in designing complex multimillion gate ASICs.

The advent of the Internet age and its associated technology and infrastructure, collectively called e-services, opens up new opportunities for today's EDA companies by allowing new and innovative business models to be implemented and deployed globally. These e-services will revolutionize the way business is conducted between semiconductor companies, their system customers and EDA vendors. EDA companies taking advantage of the new models will take the leadership and move to the next era. Those who resist will head for extinction.

David Dick
Fujitsu Microelectronics, Inc., San Jose, CA

If design automation fuels the engine driving the world's economy, how come the EDA market is undervalued?

Successful technology companies often attribute early success to their relationship with good venture capital firms. In the third quarter of 1999, $8.6 billion was invested by the venture community; two thirds in internet businesses. None of that money was invested in new design automation companies. From a venture capitalist's point of view the returns are unattractive relative to other opportunities. If the internet changes everything, why hasn't the EDA market embraced it?

Greg Spirakis
Intel Corporation, Santa Clara, CA

Bruce Toal
Hewlett-Packard, Richardson, TX