

PANEL: Unified Tools for SoC Embedded Systems: Mission Critical, Mission Impossible or Mission Irrelevant?

Chair: Gary Smith, Dataquest

Organizers: Daya Nadamuni, Dataquest and Sharad Malik, Princeton University

Abstract

As designers struggle with developing application solutions consisting of complex systems-on-a-chip with a significant software component, they must deal with a diversity of tools with very different philosophies and assumptions, to help manage this task. On one hand are tools which assume a clean separation between the hardware and software parts of the design with an abstraction of the hardware available for software development. On the other hand are tools that try to handle the hardware and software parts of the design concurrently. What drives these different philosophies? Which of these is critical for emerging system designs? Which of these is viable going forward? Our panel of experts consisting of designers, embedded software tool providers, system design tool providers and an academic will answer these challenging questions.

Panelists

Rick Chapman
ST Microelectronics

John Fogelin
Wind River Systems

Kurt Keutzer
UC, Berkeley

Grant Martin
Cadence Design Systems

Brian Bailey
Mentor Graphics