Embedded software has long been identified to be the key functional differentiator in applications such as wireless, multimedia, networking, aerospace and automotive. Even more, today’s complex hardware can no longer be sold without the associated software running on it, the best architected chip design will fail in the market if its associated software is late or insufficient. The embedded software developer faces the challenge of increased software complexity, combined with increased debugging complexity due to advanced hardware features such as multicore devices. Addressing the increase in complexity requires starting software development as early as possible, a sequential design flow (hardware-followed-by-software development) often is no longer suited.

Embedded software development using virtual platforms is one of the key concepts to address the needs of parallelized hardware / software development. This workshop provides an overview of virtual platform technology and underlying concepts, such as the SystemC TLM-2.0 standard. Major focus will be given to case studies illustrating the experience of software developers deploying virtual platforms. In typical projects productive software development could start 9-12 months prior to silicon availability.

WORKSHOP AGENDA

14:00 - 14:05: Welcome (ECSI)
14:05 - 15:35: Tutorial: Virtual Platforms for embedded SW development (Synopsys)
15:35 - 15:50: Break
15:50 - 16:35: Case Study: USB Driver and protocol stack development using Virtual Platforms (emsys)
16:35 - 17:20: Case Study: Embedded SW Development on Virtual Platform for AUTOSAR (Geensys)
17:20 - 17:30: Wrap-up (ECSI)
17:30 - 18:30: Come-together, with some wine and cheese

ORGANIZER INFO

Please come visit the organizers of the workshop at booth number A13 at the RTS Embedded Systems Exhibition:
Mar 31- April 2nd 2009
Paris Expo, Porte de Versailles
Hall 8
Registration is free via RTS Website: www.salon-rts.com

Dr Adam Morawiec
ECSI Director
Electronic Chips & Systems design Initiative (ECSI)
Parc Equation - 2, Avenue de Vignate
38610 Gieres, France
Phone: +33 4 76 63 49 34
Fax: +33 4 76 42 87 87
E-mail: Adam.Morawiec@ecsi

Dr Markus Willems
Sr. Product Marketing Manager
Synopsys
Kaiserstrasse 100
52134 Herzogenrath, Germany
Phone: +49 2407 5636 75
FAX: +49 2407 5636 44
Email: Markus.Willems@synopsys.com

Please, transfer this message to persons interested in this topic! We apologize if you’ve received multiple copies of this message. If you don’t wish to receive e-mails concerning the ECSI activities, please reply to this message with the subject "remove."