

2nd European SystemC™ Users Group Meeting, Munich, June 30th, 2000

Minutes
(July 4th, 2000, 14:22)

All presentation slides can be downloaded from the European SystemC Users Group webpage at www-ti.informatik.uni-tuebingen.de/~systemc .

Welcome (11:00)

Speaker:

Wolfgang Rosenstiel

Topic:

Goals of the European SystemC™ Users Group, Users Group roadmap, agenda.

Vendor Presentations (11:15)

Speaker:

Frank Franssen (CoWare)

Topic:

--- not available yet (to be updated) ---

Speaker:

Martin Janssen (Synopsys)

Topic:

CoCentric SystemC Compiler, hardware implementation flow, SystemC design example: video decoder.

Lunch (13:15)

Vendor Presentations Cont. (14:00)

Speaker:

Ivo Van Gelder (Frontier Design)

Topic:

Art Designer with SystemC, SystemC design example: DCT case study.

User Presentations (14:30)

Speaker:

Claudia Feregrino (Loughborough University)

Topic:

SystemC design example: new statistical model (shift model) derived for PPMC that simplifies coding operations and achieves similar compression ratios to PPMC.

Speaker:

Bernhard Niemann (FhG Erlangen)

Topic:

SystemC design example: Modeling of a GPS receiver, GPS basics, system architecture, SystemC model, simulation results.

Speaker:

Joachim Gerlach (University of Tübingen)

Topic:

SystemC design example: JPEG image compression/decompression stream, top-down design style, extending the design by new SystemC modules, software demo.

Speaker:

Dirk Hoffmann (University of Tübingen)

Topic:

Verification of temporal properties in SystemC, Linear Temporal Logic (LTL), simulation versus formal verification, verification semantic (3-valued logic with states true, false, pending), new SystemC command `sc_assert(LTL-formula)`, software demo.

Speaker:

Pierangelo Garino (CSELT)

Topic:

Using SystemC for the development of a synthesizable IP library (*Vip library*), VHDL-to-SystemC translator (*V2SC*), V2SC-based workflow, generation of testbench and stimuli generator.

Coffee Break (16:10)

Discussion (16:40)

- Availability of SystemC compilers
- Synthesizable subset of SystemC (what about pointers?)
- Quality of SystemC synthesis
- How does Synopsys SystemC Compiler fit into existing BC / DC design flow?
- Efficiency of SystemC simulation compared to HDL simulation
- Upward compatibility from SystemC 0.9 to SystemC 1.x
- Mentor Graphics and SystemC
- “Open SystemC” concept is not transparent: what part is “open” and what part is “commercial environment”?
- “SystemC Language Reference Manual” is actually not a reference manual but something more a users guide

- SystemC standardization: what standardization body
- SystemC 1.1 for Linux/NT
- SystemC “bug database” (in addition to FAQ’s and SystemC Forum mailing list)

Closing Remarks (16:55)

Speaker:

Wolfgang Rosenstiel

End of Meeting (17:00)

Joachim Gerlach,
University of Tübingen,
Email: gerlach@informatik.uni-tuebingen.de
Phone: ++49-7071-2977347
Fax: ++49-7071-295062