

Call for Papers

SCOPES 2004

8th International Workshop on
Software and Compilers for
Embedded Systems

Amsterdam, Netherlands,
September 2-3, 2004

<http://www.scopes2004.org/>

Description

The scope of the workshop is software for embedded systems. The emphasis is on code generation techniques (compilers) for embedded processors which consider their typical characteristics, for instance heterogeneous register files, VLIW parallelism and special architectural features for signal processing or microcontroller applications.

Topics of highest interest include:

- code generation for embedded processors
- compilers for reconfigurable architectures
- retargetable compilation techniques for fast design space exploration
- compilation for hardware/software co-design
- application specific programmable core/software development tools co-design
- profiling and analysis techniques for embedded software
- optimizations for embedded Java
- specification and validation techniques for embedded software
- run-time support and real-time operating systems
- software synthesis
- exploitation of memory hierarchies
- optimization for low-power architectures
- design of embedded software

SCOPES 2004 solicits in particular papers on compilation and software design for

heterogeneous single chip multi-core processors, including the partitioning and debugging of the software for such processors.

The plan is to have one day of the workshop devoted to compilers for embedded processors and one day on general issues related to embedded software and embedded processor architectures. In addition, there will be a keynote presentation by a well-known speaker.

A key goal of the workshop is to provide an interactive atmosphere. Questions are welcomed during all presentations. There will be sessions to discuss specific topics. The workshop is open to all interested participants active in the field.

Proceedings

The proceedings will be published by Springer in the [Lecture Notes in Computer Science](#) (LNCS) series. Depending on the rating by the program committee, the authors of the best contributions will be invited to submit an extended and reworked full paper for inclusion in a special issue of ACM [Transactions on Embedded Computing Systems](#) (TECS).

Submitting Papers

Papers should present original, new research results not published or submitted for publication in other forums. Papers should not exceed 15 pages ([LNCS format](#)) in postscript, PDF or RTF format. Papers should be submitted using the [submission page](#), which will be opened on **March 15th**.

By submitting a paper, the authors agree to prepare the final camera-ready version in time and to present the paper in person at the workshop, if accepted. They furthermore agree to prepare an extended full paper for the special issue of ACM [TECS](#), if selected by the program committee.

Important Dates

Abstracts due: April 8th, 2004. Strict paper submission deadline: **April 15th, 2004**. Notification of acceptance: May 24th. The deadline for the camera-ready final version is June 21st, 2004.

The deadlines with respect to the inclusion of the selected papers in the special issue of ACM TECS will be communicated in due course.

Committee

General chairs

- Marco Roodzant, ACE Associated Compiler Experts
- Henk Schepers, Philips Research

Local organisation

- Marianne Dalmolen, ACE Associated Compiler Experts

Program Committee

- Uwe Assmann, Linköpings Universitet
- Lex Augusteijn, Silicon Hive
- Shuvra Bhattacharyya, University of Maryland
- Albert Cohen, INRIA
- Alex Dean, North Carolina State University
- Nikil Dutt, University of California at Irvine
- Antonio González, Universitat Politècnica de Catalunya & Intel Labs
- David Gregg, Trinity College Dublin
- Rajiv Gupta, University of Arizona
- Seongsoo Hong, Seoul National University
- Nigel Horspool, University of Victoria
- Masaharu Imai, Osaka University
- Ahmed Jerraya, IMAG
- Daniel Kästner, AbsInt
- Andreas Krall, Technische Universität Wien
- Rainer Leupers, RWTH Aachen
- Annie Liu, SUNY Stony Brook
- Peter Marwedel, Universität Dortmund
- Tatsuo Nakajima, Waseda University
- Alex Nicolau, University of California at Irvine
- Yunheung Paek, Seoul National University
- Santosh Pande, Georgia Institute of Technology
- Robert Pasko, IMEC
- Sreeranga Rajan, Fujitsu
- Miguel Santana, STMicroelectronics
- Hans van Someren, ACE Associated Compiler Experts
- Hiroyuki Tomiyama, Nagoya University
- Bernard Wess, Technische Universität Wien

- David Whalley, Florida State University

History

SCOPES 2004 is the eighth workshop in a series of workshops that initially were called "International Workshop on Code Generation for Embedded Processors (CGEP)". The name SCOPES has been used since the fourth workshop. While main emphasis is still on code generation, the workshop scope has been extended to also cover general issues in embedded software design.

Affiliation

SCOPES 2004 is organized in cooperation with [EDAA](#).