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ISSN 2190-6807

www.dagstuhl.de/oasics
Proceedings of the 6th International Workshop on Worst-Case Execution Time Analysis (WCET’06)

Chair:
Frank Mueller
North Carolina State University, USA

Dresden, Germany, July 4, 2006
Preface

On the 4th of July, 2006, the 6th International Workshop on Worst-Case Execution Time Analysis (WCET’06) was held in Dresden, Germany, co-located with the 18th Euromicro International Conference on Real-Time Systems (ECRTS’06), both with support of Euromicro Technical Committee. The goal of the workshop was to bring together people from academia, tool vendors and users in industry that are interested in all aspects of timing analysis for real-time systems. The workshop provided a relaxed forum to present and discuss new ideas, new research directions, and to review current trends in this area. The workshop was based on short presentations that should encourage discussion by the attendees.

The topics of the workshop include any issue related to timing analysis, in particular:

- Different approaches at computing WCET
- Flow analysis for WCET
- Low-level timing analysis, modeling and analysis of features
- Calculation methods for WCET
- Strategies to reduce the complexity of WCET analysis
- Integration of WCET and schedulability analysis
- Evaluation and case studies
- Testing Methods for WCET analysis
- Tools for timing analysis
- Design for Timing Predictability
- Integration of WCET analysis into the development process
- Compiler optimizations for worst-case paths
- WCET analysis for multi-processors, multi-cores or SMTs
- WCET analysis for networks (e.g., CAN)

WCET’06 featured one invited talk, one report of an upcoming WCET tool contest and, most of all, presentations of technical paper combined with discussions with the attendees. The papers were selected based on peer reviews by program committee members and outside reviewers, all experts in the field.

Acknowledgments

The workshop chair would like to acknowledge the following people:

- the invited speaker, Tullio Vardanega, Univ. of Padua (Italy), for his voluntary contribution to the workshop;
- Herman Härtig for his local support;
- the WCET SC for their advice;
- and last but not least the eager members of the program committee and the anonymous external reviewers.

The Chair,

Frank Mueller

June 2006

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**WCET’06 Program Committee**
- Henk Corporaal, TU/e (Eindhoven University of Technology). Netherlands.
- Niklas Holsti, Tidorum Ltd.. Finland.
- Björn Lisper, University of Mälardalen. Sweden.
- Stefan Petters, National ICT Australia Ltd. Australia.
- Isabelle Puaut, IRISA Rennes. France.
- Jan Staschulat, University of Braunschweig. Germany.
- Gerhard Unterweger, Consultant for Automotive Industry. Germany.

**WCET’06 Steering Committee**
- Jan Gustafsson, Mälardalen University, Sweden.
- Peter Puschner, Technical University of Vienna, Austria.

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Table of Contents

Session 1: Tightening WCET Bounds

*Algorithms for Infeasible Path Calculation*, Jan Gustafsson, Andreas Ermedahl, and Björn Lisper

*Comparing WCET and Resource Demands of Trigonometric Functions Implemented as Iterative Calculations vs. Table-Lookup*, Raimund Kirner, Markus Groessing, Peter Puschner

*History-based Schemes and Implicit Path Enumeration*, Claire Burguière and Christine Rochange

Session 2: Timing Anomalies

*A Definition and Classification of Timing Anomalies*, Jan Reineke, Bjoern Wachter, Stephan Thesing, Reinhard Wilhelm, Ilia Polian, Jochen Eisinger, and Bernd Becker

*PLRU Cache Domino Effects*, Christoph Berg

Session 3: Compilers and WCET

*Design of a WCET-Aware C Compiler*, Heiko Falk, Paul Lokuciejewski, Henrik Theiling

*Loop Nest Splitting for WCET-Optimization and Predictability Improvement*, Heiko Falk, Martin Schwarzter

*Combining Symbolic Execution and Path Enumeration in Worst-Case Execution Time Analysis*, D. Kebbal and P. Sainrat

Session 4: Potpourri

*A Framework for Response Times Calculation Of Multiple Correlated Events*, Simon Schliecker, Matthias Ivers, Jan Staschulat, Rolf Ernst


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