6th International Workshop on Worst-Case Execution Time Analysis

WCET 2006, July 4, 2006, Dresden, Germany

Edited by

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ACM Classification 1998
C.4 Performance of Systems, D.2.4 Software/Program Verification

ISBN 978-3-939897-03-3

Published online and open access by
Schloss Dagstuhl – Leibniz-Center for Informatics GmbH, Dagstuhl Publishing, Saarbrücken/Wadern, Germany.

Publication date
August, 2006.

Bibliographic information published by the Deutsche Nationalbibliothek
The Deutsche Nationalbibliothek lists this publication in the Deutsche Nationalbibliografie; detailed bibliographic data are available in the Internet at http://dnb.d-nb.de.

Digital Object Identifier: 10.4230/OASIcs.WCET.2006.i

ISBN 978-3-939897-03-3 **ISSN 2190-6807** **http://www.dagstuhl.de/oasics**

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ISSN 2190-6807

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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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Table of Contents