3rd International Workshop on GCC Research Opportunities (GROW 2011)

April 3, 2011, Chamonix, France
(co-located with CGO 2011)

http://grow2011.inria.fr

Organizers

David Edelsohn
IBM, USA

Erven Rohou
INRIA, France

Program Committee

Zbigniew Chamski
Infrasoft IT Solutions, Poland

Albert Cohen
INRIA, France

David Edelsohn
IBM, USA

Björn Franke
University of Edinburgh, UK

Grigori Fursin
EXATEC Lab, France

Benedict Gaster
AMD, USA

Jan Hubička
SUSE, Czech Republic

Paul H.J. Kelly
Imperial College of London, UK

Ondřej Lhoták
University of Waterloo, Canada

Hans-Peter Nilsson
Axis Communications, Sweden

Diego Novillo
Google, Canada

Dorit Nuzman
IBM, Israel

Andrea Ornstein
STMicroelectronics, Italy

Sebastian Pop
AMD, USA

Erven Rohou
INRIA, France

Ian Lance Taylor
Google, USA

Chengyong Wu
ICT, China

Kenneth Zadeck
NaturalBridge, USA

Ayal Zaks
IBM, Israel

The GROW workshop focuses on current challenges in research and development of compiler analyses and optimizations based on the free GNU Compiler Collection (GCC). The goal of this workshop is to bring together people from industry and academia that are interested in conducting research based on GCC and enhancing this compiler suite for research needs. The workshop will promote and disseminate compiler research (recent, ongoing or planned) with GCC, as a robust industrial-strength vehicle that supports free and collaborative research. The program will include an invited talk and a discussion panel on future research and development directions of GCC.

Topics of interest

Any issue related to innovative program analysis, optimizations and run-time adaptation with GCC including but not limited to:

- Classical compiler analyses, transformations and optimizations
- Power-aware analyses and optimizations
- Language/Compiler/HW cooperation
- Optimizing compilation tools for heterogeneous/reconfigurable/ multicore systems
- Tools to improve compiler configurability and retargetability
- Profiling, program instrumentation and dynamic analysis
- Iterative and collective feedback-directed optimization
- Case studies and performance evaluations
- Techniques and tools to improve usability and quality of GCC
- Plugins to enhance research capabilities of GCC

Paper Submission Guidelines

Submitted papers should be original and not published or submitted for publication elsewhere; papers similar to published or submitted work must include an explicit explanation. Papers should use the LNCS format and should be 12 pages maximum.

Papers will be refereed by the Program Committee and if accepted, and if the authors wish, will be made available on the workshop web site.

Important Dates

Final deadline for submission:	**January 31, 2011**
Decision notification:	**February 28, 2011**
Workshop:	**April 3, 2011**

Previous Workshops

GROW'10: *http://cTuning.org/workshop-grow10*
GROW'09: *http://www.doc.ic.ac.uk/~phjk/GROW09*
GREPS'07: *http://sysrun.haifa.il.ibm.com/hrl/greps2007*