UNICORE SUMMIT

30. – 31. August 2006

in conjunction with

Euro-Par 2006
Dresden, Germany
29th August - 1st September 2006

Program Chairs:

Achim Streit (FZJ)

Wolfgang Ziegler (FhG-SCAI)

Forschungszentrum Jülich
in der Helmholtz-Gemeinschaft

50 Jahre Zukunft

Fraunhofer SCAI
Institut
Algorithmen und Wissen-
schaftliches Rechnen

- Sophia Antipolis, France,
- October, 11 – 12, 2005
- in conjunction with Grids@Work – 2nd Grid Plugtests
- http://summit.unicore.org/2005_Orig/
- 3 tracks focused on users, developers, admins
- 2 invited talks from Gentzsch and Matsuoka
- 15 talks from the community
- lecture hall was full with a maximum of 46 participants
- sponsored by the UNICORE Forum e.V.

UNICORE SUMMIT

- New for 2006: Call for Papers
  - Papers are published in separate Springer LNCS proceedings with all EuroPar Workshops
- Program Chairs:
  - Achim Streit (FZJ)
  - Wolfgang Ziegler (FhG-SCAI)
- Dates
  - Publication of CfP: beginning of April
  - Submission Deadline: 11. June (extended until 18. June)
  - Reviews received by 12. July (approx. 3.5 weeks)
  - Notification send out: 13. July

Scope

The goal of the UNICORE Summit is to bring together researchers and practitioners working with UNICORE in the areas of Grid and distributed computing, to exchange and share their experiences, new ideas, and latest research results on all aspects of UNICORE.

Topics of interest

Topics of interest for the UNICORE Summit should be related to UNICORE and include but are not limited to:

- High-performance scientific and engineering Grid applications
- Grid scheduling, resource management, and brokering
- Theoretical models and algorithms
- Reliability, fault-tolerance, and autonomy
- Interoperability
- Security
- Performance evaluation
- Architecture extensions and new components
- Scientific and economic scenarios
- Business models and service provisioning
- Tools and environments for development, deployment, and configuration
- Service-oriented designs with emerging Grid and Web standards

Proceedings

Accepted papers will be published in Springer's Lecture Notes in Computer Science (LNCS) series. For more information regarding paper format and style please visit the author's instruction link at LNCS: http://www.springer.de/comp/lncs.

Paper submissions

Authors are invited to submit manuscripts reporting original unpublished research and recent developments in the topics related to UNICORE, e.g. the described topics of interest. Submitted papers should be formatted in LNCS format and should not exceed 10 pages including figures and references. Papers should be submitted electronically in PDF format by sending it as an e-mail attachment to unicore-summit@fz-juelich.de. All papers will be peer reviewed and the comments will be provided to the authors.

UNICORE SUMMIT

- Program Committee
  - Agnes Ansari (CNRS-IDRIS, France), Rosa Badia (Barcelona Supercomputing Center, Spain), Piotr Bala (ICM, Poland), John Brooke (University of Manchester, UK), Anton Frank (LRZ Munich, Germany), Edgar Gabriel (University of Houston, USA), Alfred Geiger (T-Systems, Germany), Odej Kao (University of Paderborn - PC², Germany), Paolo Malfetti (CINECA, Italy), Ralf Ratering (Intel GmbH, Germany), Johannes Reetz (Max-Planck-Institut fuer Plasmaphysik - RZG, Germany), Mathilde Romberg (University of Ulster, UK), Bernd Schuller (Forschungszentrum Juelich, Germany), David Snelling (Fujitsu Laboratories of Europe, UK), Stefan Wesner (University of Stuttgart - HLRS, Germany), Ramin Yahyapour (University of Dortmund, Germany)

UNICORE SUMMIT

- Total submissions: 21
- Most of the papers had 4 reviews
- Rejected papers: 13
- Accepted papers: 8
- Acceptance rate: 38.09% (similar like EuroPar conference)

UNICORE SUMMIT 30. August 2006

Opening Session	
9:00 - 9:30	*Alfred Geiger, Achim Streit, Wolfgang Ziegler* **Opening**
9:30 - 10:30	*David Snelling* **Direction and Trends in Grid Computing Standards**

Core Components and Security	
11:00 - 11:45	*Bernd Schuller, Roger Menday, Achim Streit* **A Versatile Execution Management System for Next-Generation UNICORE Grids**
11:45 - 12:30	*Willy Weisz* **Towards More Flexible and Increased Security and Privacy in Grids**

Resource Preselection and Workflows	
14:00 - 14:45	*Ralf Gruber, Vincent Keller, Michela Thiémard, Oliver Wäldrich, Philipp Wieder, Wolfgang Ziegler, Pierre Manneback* **Integration of Grid Cost Model into ISS/VIOLA Meta-Scheduler environment**
14:45 - 15:30	*Roger Menday, Björn Hagemeier, Bernd Schuller, David Snelling, Sven van den Berghe, Claudio Cacciari, Maurizio Melato* **A One-Stop, Fire-and-(almost)Forget, Dropping-off and Rendezvous Point**

UNICORE Tutorial	
16:00 - 18:00	*Morris Riedel* **UNICORE Tutorial**

UNICORE SUMMIT 31. August 2006

UNICORE based Business Experiments in BEinGrid	
9:00 - 9:10	*Stefan Wesner* **BEinGrid**
9:10 - 9:25	*Claudio Cacciari* **Textile Grid Portal - Virtual laboratory for SMEs in textile industry**
9:25 - 9:40	*Stefan Wesner* **Logistics @ Distribution - Grid experiment on logistic optimization**
9:40 - 9:55	*Hubert Hérenger, Stefan Kaden* **Groundwater Modelling - Large scale multidisciplinary compute grid**
9:55 - 10:10	*Ottmar Krämer-Fuhrmann, Christian Simmendinger* **Ship Building - Grid technology in the early design phase**
10:10 - 10:25	*Julian Reichwald, Walter Schäfer* **Integration of Engineering and Business in Metal Forming - Products and production processes in the automotive supplier industry**
10:25 - 10:30	**Short Discussion**

Applications	
11:00 - 11:45	*Guido Scherp, Jan Ploski, Wilhelm Hasselbring* **Grid-based Processing of High-Volume Meteorological Data Sets**
11:45 - 12:30	*Marcelina Borcz, Rafal Kluszczynski, Piotr Bala* **BLAST Application on the GPE/UnicoreGS grid**

Applications and Production	
14:00 - 14:45	*Thomas Soddemann* **Job Management Enterprise Application**
14:45 - 15:30	*Luca Clementi, Michael Rambadt, Roger Menday* **UNICORE Deployment within the DEISA Supercomputing Grid Infrastructure**

UNICORE FORUM

- Founded by developers, leading European HPC centres, and supporting hardware vendors as a non-profit association
- Tasks
  - foster the distribution and use of UNICORE, organize workshops, support presentations at conferences, publish and maintain the specifications, coordinate further development, certify implementations and extensions