

# Current and Future Generation Grid Technology

Summer School 2006

24<sup>th</sup> - 28<sup>th</sup> July, Bonn (Germany)

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## Sponsors

IBM STG Infrastructure Solutions



Sun Microsystems GmbH



## Programme

### MONDAY, 24<sup>th</sup> July 2006

- 1) **Registration** (B-IT/SCAI) 08:00 - 09:00
- 2) **Welcome, Overview** (B-IT, Martin Hofmann) 09:00 - 09:15
- 3) **Introduction to Grid Technologies**  
09:15 - 11:00 *"Session: Next Generation Grid"*
  - a) Introduction - CoreGRID (Domenico Laforenza) 09:15 - 10:00
  - b) NextGRID Architecture (Stephen Davey) 10:00 - 10:45
  - c) Questions / Discussions 10:45 - 11:00

*COFFEE break 11:00 - 11:15*

*11:15 - 13:00 "Session: Grid Principles I"*

- c) Grid Architectures (Hiro Kishimoto) 11:15 - 12:00
- d) Grid Security (Alvaro Arenas) 12:00 - 12:45
- e) Questions / Discussions 12:45 - 13:00

*LUNCH break 13:00 - 14:00*

#### 4) Grid information, resource management and monitoring

14:00 – 18:00 “Session: Grid RMS and Monitoring”

- a) RMS - CoreGRID (Ramin Yahyapour) 14:00 - 14:45
- b) RMS - HPC4U (Simon Alexandre) 14:45 - 15:30
- c) Questions / Discussions 15:30 – 15:45

*COFFEE break 15:45 - 16:15*

- d) Mobile networks and RMS - Akogrimo (Robert Piotter) 16:15 - 17:00
- e) Monitoring - CoreGRID (Norbert Meyer) 17:00 - 17:45
- f) Questions / Discussions 17:45 – 18:00

### WELCOME RECEPTION “Get together@B-IT” 18:00 – 19:30

## TUESDAY, 25<sup>th</sup> July 2006

#### 5) Web and Grid Services

09:00 - 10:45 “Session: Grid Principles II”

- a) Welcome, context and linking (Wolfgang Ziegler) 09:00 – 09:15
- b) Web Services (Roger Menday) 09:15 – 10:00
- c) Grid Services – WSRF (Roger Menday) 10:00 - 10:45

*COFFEE break 10:45 - 11:15*

#### 6) Current Grid Platforms and Services

11:15 - 15:15 “Session: Grid Environments”

- a) IBM RMS and distributed Queuing in Grids (Thomas Rueter) 11:15 – 12:00
- b) Distributed Resource Management in Grids (Constantin Gonzalez) 12:00 - 12:45

*LUNCH break 12:45 - 13:45*

- c) Resource Orchestration in Grids (Wolfgang Ziegler) 13:45 - 14:30
- d) gLite and GILDA - EGEE (Roberto Barbera) 14:30 - 15:15

*COFFEE break 15:15 - 15:45*

#### 7) Grid Applications in Life Sciences

15:45 - 18:00 “Session: Grid Applications”

- a) WISDOM (Marc Zimmermann) 15:45 - 16:30
- b) DEISA Life Science applications (Victor Alessandrini, to be confirmed) 16:30 - 17:15
- c) Questions / Discussions 17:15 – 18:00

## WEDNESDAY, 26<sup>th</sup> July 2006

### 8) Introduction to UNICORE (Research Center Juelich) 09:00 – 18:00 “Session: Grid Practices I”



- a) Welcome, context and linking (Morris Riedel) 09:00 – 09:15
- b) UNICORE: From Project Results to Production Grids (Morris Riedel) 09:15 – 10:15

*COFFEE break 10:15 - 10:45*

- c) UNICORE & RMS, Workflow, Security,  
Interoperability (Morris Riedel) 10:45 – 11:45

- d) Discussion / Questions 11:45 - 12:30

*LUNCH Break 12:30 - 13:30*

- e) UNICORE Installation / Configuration (Morris Riedel) 13:30 - 15:00

*COFFEE break 15:00 - 15:30*

- f) UNICORE Command Line Interfaces & Plugins (Morris Riedel) 15:30 - 16:30

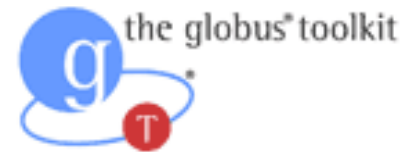
- g) Introduction to Unicore/GS (Morris Riedel) 16:30 - 17:30

- h) UNICORE Experiences / Discussion / Questions 17:30 - 18:00

## SOCIAL EVENT “Rhine Riverboat Tour” 18:30 – 24:00



## THURSDAY, 27<sup>th</sup> July 2006



### 9) Introduction to GT4 (Jennifer Schopf, ANL)

09:00 – 18:00 “Session: Grid Practices II”

- a) Welcome, context and linking (Jennifer Schopf) 09:00 – 09:15
- b) Globus Toolkit Introduction (Jennifer Schopf) 09:15 – 10:15

*COFFEE break 10:15 - 10:45*

- c) GT4 Components (Jennifer Schopf) 10:45 – 11:45
- d) Discussion / Questions 11:45 - 12:30

*LUNCH Break 12:30 - 13:30*

- e) GT4 Installation (Hamza Mehammed) 13:30 – 15:00

*COFFEE break 15:00 - 15:30*

- f) GT4 Konfiguration (Hamza Mehammed) 15:30 - 16:00
- g) GT4 Tests (Hamza Mehammed) 16:00 - 17:00
- h) Experiences / Discussion / Questions 17:00 - 18:00

## FRIDAY, 28<sup>th</sup> July 2006

### 10) Grid Applications in Industry – “Life Sciences”

09:00 – 10:45 “Session: Industrial Experiences”

- a) Welcome, context and linking (Martin Hofmann) 09:00 – 09:15
- b) Oracle’s Grid Technology (Graeme Kerr) 09:15 - 10:00
- c) Anterio’s MOAB – Clustering Grids (Tassilo Eckerle) 10:00 - 10:45

*COFFEE break 10:45 - 11:15*

### 11) Visions of Future Grids

11:15 – 15:00 “Session: Visions and Discussion”

- a) Vision of UNICORE – Unigrids and beyond (Daniel Mallmann) 11:15 - 11:45
- b) Vision of Globus (Jennifer Schopf) 11:45 - 12:15

*LUNCH break 12:15 - 13:15*

- c) Vision of NGG (Keith Jeffery) 13:15 - 13:45
- d) Panel Discussion on Visions of Future Grids 13:45 - 14:30
- e) Summary, Closing Remarks (Martin Hofmann) 14:30 – 15:00