

# **Summary report about the 2<sup>nd</sup> BG Summer School in** **Riga**

## ***The aim***

The main aims of the 2<sup>nd</sup> BG Summer School were to gather potential Grid users with their own applications, present them basic Grid computing principles and encourage to port their applications to the Grid. The event brought together young and bright scientists from the Baltic Sea region academia and research field and spread knowledge about the current development status and capacity of the Grid in the region.

The school took place in the Faculty of Telecommunications and Electronics of Riga Technical University in Riga, Latvia from 2 to 6 July 2007. It was organized in collaboration of both BalticGrid project partners from Latvia: RTU ETF and IMCS UL.

## ***The programme***

The summer school programme was 5 days long and consisted of lectures and practical work. The first day lectures and hands-on tutorial were dedicated to the general introduction and presentation of the Grid Computing opportunities. Lectures and exercises on various aspects of applications grid-enabling covered the next 3 days. The last day of the school was devoted to significant Grid security issues.

The total time spent by the Summer school participants' on five-day lectures and practical exceeded 30 hours of which 29% were general lectures about the Grid computing, data management, security and MPI applications, 27% - lectures about various issues of application grid-enabling and the largest part, i.e., 44% – practical exercises in the computer room. The complete programme with the schedule is attached as Appendix 1.

## ***The participants***

The total number of the pre-registered participants to the 2<sup>nd</sup> BG Summer School was 20, but only 18 of them arrived and participated. There were 6

participants from Latvia, 6 from Lithuania, 3 from Belarus, 2 from Poland and 1 from Estonia. The detailed list of the school participants is given in Appendix 2.

### *The lecturers*

The 2<sup>nd</sup> BG Summer School organizers would like to say special thanks to all 8 lecturers who gave their excellent lectures and tutorials in Riga:



Pär Öster

BalticGrid project coordinator, KTH PDC, Stockholm, Sweden



Bartek Palak

lecturer from BG partner institution PSNC, Poznan, Poland



Tadeusz Szymocha

lecturer from BG partner institution IFJ PAN, Krakow, Poland



Tomasz Szepieniec

lecturer form BG partner institution IFJ PAN, Krakow, Poland



Marcin Radecki

lecturer from BG partner institution IFJ PAN, Krakow, Poland



Rolandas Naujikas

lecturer form BG partner institutions VU MIF (Vilnius, Lithuania) and CERN (Geneva, Switzerland)



Guntis Bārzdiņš

professor, lecturer and BalticGrid project Network manager, IMCS UL, Riga, Latvia



Syed Naqvi

lecturer on Grid Security from CETIC, Charleroi, Belgium

### ***The evaluation by the participants***

The school participants were given evaluation forms to express their opinion about the event. 13 forms were collected at the end of the school of which 7 were filled anonymously. The statistical results of the filled forms gave the total rate 4,23 (with 0,76 variance of the rate) – taking into account various subjects under evaluation. The most common suggestions from the school participants were:

1. The hotel for the school participants should be nearer to the main venue of the event and also city centre
2. There could be done the differentiation of the school participants depending on their level of knowledge about the Grid and skills.

### ***Acknowledgements***

Many thanks to all people involved in the organizing and managing the successful process of the 2<sup>nd</sup> BG Summer School in Riga. The organizers thank the BalticGrid project for the main support of the school.

# 2<sup>nd</sup> BalticGrid Summer School

## Agenda

2-6 July 2007

Venue: *Riga Technical University Faculty of Electronics and Telecommunications (RTU ETF), Riga, Latvia*

### Monday, 2 July 2007

**12:00-12:15** Opening, technical issues, organisation of work

**12:15-14:00** Grid computing presentation *by Per Öster, KTH PDC, Sweden*

**14:00-15:15** Lunch

**15:15-16:45** Introduction to Grid computing. Hands-on tutorial  
All day conducted *by Bartek Palak, PSNC, Poznan, Poland*

**16:45-17:15** Coffee break

**17:15-18:30** Introduction to Grid computing. Hands-on tutorial (continued)

**18:30-18:50** Coffee break

**18:50-20:00** Introduction to Grid computing. Hands-on tutorial (continued)

**20:00-23:20** Social event: welcome reception in room 1A, RTU

### Tuesday, 3 July 2007

**08:30-09:00** Coffee break – breakfast

**09:00-11:00** Plenary session– Gridification of BG Linguistic applications  
lectures and exercises *by Guntis Barzdins, University of Latvia*

**11:00-11:30** Coffee break

**11:30-13:00** Gridification of BG Linguistic applications (continued)

**13:00-14:30** Lunch

**14:30-16:00** Application grid-enabling: Part I - Basic techniques  
Tuesday to Thursday conducted *by Tomasz Szepieniec and Marcin*

*Radecki, IFJ PAN, Poland*

**16:00-16:30** Coffee break

**16:30-18:00** Parallel sessions – Exercises on application grid-enabling

### Wednesday, 4 July 2007

**08:30-09:00** Coffee break – breakfast

**09:00-10:00** Plenary session – Data Management *by Tadeusz Szymocha, IFJ PAN*

**10:00-11:00** Application grid-enabling: Part II - Beyond limits of gLite  
lecture *by Tomasz Szepieniec - IFJ PAN*

**11:00-11:30** Coffee break

**11:30-13:00** Parallel sessions – Exercises on application grid-enabling (continued)

**13:00-14:30** Lunch

**14:30-16:00** Parallel sessions – Exercises on application grid-enabling (continued)

**16:00-16:30** Coffee break

**16:30-18:00** Parallel sessions – Exercises on application grid-enabling (continued)

### Thursday, 5 July 2007

**08:30-09:00** Coffee break – breakfast

**09:00-09:45** Application grid-enabling: Part III - Managing large experiments

lecture *by Rolandas Naujikas, VU and CERN*

**09:45-11:00** Plenary session–MPI in BalticGrid environment *by Rolandas Naujikas*

**11:00-11:30** Coffee Break

**11:30-13:30** Exercises on applications in MPI environment *by Rolandas Naujikas*

**13:30-14:30** Lunch

**14:30-16:00** Parallel session - Exercises on application grid-enabling  
(continued)

**16:00-16:30** Coffee Break

**16:30-18:00** Plenary session - **SUMMARY**, conclusions of three day  
work

**18:00** **Bus from RTU** to gala dinner venue

**19:00-22:30** **Social event: gala dinner**

Venue: "Priedes krogs", The Latvian Ethnographic Open  
Air Museum

### **Friday, 6 July 2007**

**08:30-09:00** Coffee break – breakfast

**09:00-11:00** Grid security - Principles and Practices *by Syed Naqvi,*  
*CETIC, Belgium*

**11:00-11:30** Coffee break

**11:30-13:00** Grid security - Principles and Practices (continued)

**13:00-14:00** Lunch

**14:00-15:00** Closing session