BalticGrid Summer School

Report of Contributions

Contribution ID: **1**　　　　　　　　　　　　　　　　Type: **not specified**

Introduction

Wednesday, 5 July 2006 09:00 (15 minutes)

Session Classification:　EGEE Tutorial: Introduction to Grids and to EGEE

Contribution ID: **2**   Type: **not specified**

Authentication, Authorisation and Security

Wednesday, 5 July 2006 10:30 (30 minutes)

The fundamental challenges of grid computing are described: how can trust be established between sites and users?? How can security be protected when communication is across a public network? How are users authorised to use computers and data?

Session Classification: EGEE Tutorial: Introduction to Grids and to EGEE

Contribution ID: **3**　　　　　　　　　　　　　　　　　　　　Type: **not specified**

What is Grid Computing?

Wednesday, 5 July 2006 09:15 (45 minutes)

Session Classification: EGEE Tutorial: Introduction to Grids and to EGEE

Contribution ID: **4** Type: **not specified**

An overview of the EGEE project and middleware

Wednesday, 5 July 2006 10:00 (30 minutes)

EGEE has established an international grid infrastructure. This talk describes the activities and objectives of EGEE. It then outlines the major middleware services:
Authorisation and Authentication
Information Services
Data Managament
Workload management

These will be used during the practicals later in the day on the GILDA grid.

GILDA is a grid provided for training by the University of Catania and INFN, with partner sites in many countries.

Session Classification: EGEE Tutorial: Introduction to Grids and to EGEE

Contribution ID: **5**　　　　　　　　　　　　　　　　　　Type: **not specified**

Presentations

Saturday, 8 July 2006 10:00 (1h 30m)

Session Classification: Grid applications

Contribution ID: **6**　　　　　　　　　　　　　　　　　　　　Type: **not specified**

Presentations

Saturday, 8 July 2006 11:50 (1h 10m)

Session Classification: Grid applications

Contribution ID: **7**
Type: **not specified**

Presentations

Saturday, 8 July 2006 14:00 (2 hours)

Session Classification: Grid applications

Contribution ID: **8** Type: **not specified**

Information systems on EGEE

Wednesday, 5 July 2006 12:15 (45 minutes)

An outline is given of information systems. The "BDII Information System" commands will be used to explore the GILDA grid.

Grid monitoring tools are used to display the current state of the GILDA and EGEE production grids.

Session Classification: EGEE Tutorial: Practical introduction to the EGEE middleware

Contribution ID: **9**　　　　　　　　　　　　　　　Type: **not specified**

Closing discussion

Wednesday, 5 July 2006 17:15 (15 minutes)

Session Classification: EGEE Tutorial: Practical introduction to the EGEE middleware

Contribution ID: **10** Type: **not specified**

MyProxy and Portals: using GENIUS on GILDA

Wednesday, 5 July 2006 16:30 (45 minutes)

The MyProxy server stores and issues credentials. One of its uses is to allow users to access grid services from a browser, through a portal.

In this practical MyProxy is introduced, and then the GENIUS portal on GILDA is used.

Session Classification: EGEE Tutorial: Practical introduction to the EGEE middleware

Contribution ID: **11** Type: **not specified**

Putting it all together!

Wednesday, 5 July 2006 15:45 (45 minutes)

So far we have looked at the different services of the EGEE middleware. Now we run some simple applications that show how to:

1. submit jobs that read/write files held on the Grid
2. use a script to submit jobs to run concurrently.

Session Classification: EGEE Tutorial: Practical introduction to the EGEE middleware

Contribution ID: **12**   Type: **not specified**

Using a certificate and simple job submission

Wednesday, 5 July 2006 11:15 (1 hour)

We will use the basic commands for certificate management and for workload management.

Session Classification: EGEE Tutorial: Practical introduction to the EGEE middleware

Contribution ID: **13** Type: **not specified**

Data management

Wednesday, 5 July 2006 14:00 (1h 30m)

The management of files is described. Commands are used to read, write, replicate and list files on GILDA's storage.

Session Classification: EGEE Tutorial: Practical introduction to the EGEE middleware

Contribution ID: **14**
Type: **not specified**

Metadata: an introduction to AMGA

Thursday, 6 July 2006 09:15 (45 minutes)

Session Classification: EGEE Tutorial: EGEE practical continued

Contribution ID: **15**   Type: **not specified**

GFAL API

Thursday, 6 July 2006 15:00 (20 minutes)

Session Classification: EGEE Tutorial: EGEE practical continued

Contribution ID: **16**   Type: **not specified**

Using R-GMA to monitor applications

Thursday, 6 July 2006 10:00 (1 hour)

Session Classification: EGEE Tutorial: EGEE practical continued

Contribution ID: **17**   Type: **not specified**

More advanced workload management

Thursday, 6 July 2006 11:15 (1h 45m)

A short talk and practical exercises introduce the more advanced features of job submission and the Workload Managament System. This includes the use of MPI.

Session Classification: EGEE Tutorial: EGEE practical continued

Contribution ID: **18**   Type: **not specified**

Porting your applications to the GILDA grid

Thursday, 6 July 2006 14:00 (1h 30m)

Participants are asked to bring their own code and data for this practical.

Programs should only take input from files and write output to files. (No interactive programs) They should compile on LINUX.

Session Classification: EGEE Tutorial: EGEE practical continued

Contribution ID: **19** Type: **not specified**

Porting applications, continued

Thursday, 6 July 2006 15:45 (1h 15m)

Session Classification: EGEE Tutorial: EGEE practical continued

Contribution ID: **20**　　　　　　　　　　　　　　　　　　　Type: **not specified**

End-of-day discussion

Thursday, 6 July 2006 17:00 (15 minutes)

Session Classification: EGEE Tutorial: EGEE practical continued

Contribution ID: **21** Type: **not specified**

"Grid-enabling" applications using P-GRADE and GEMLCA

Friday, 7 July 2006 09:00 (2 hours)

The P-GRADE Portal is a generic, workflow-oriented graphical portal that can be connected to both LCG, gLite and Globus middleware based Grids. During the lecture and on-line demonstrations the following Portal capabilities will be introduced:

```
* workflow development by a graphical tool
* workflow execution in multiple grids
* on-line observation and monitoring of workflows
* data management
```

For more information about the P-GRADE Portal please visit www.lpds.sztaki.hu/pgportal

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Presenter: GABOR KECSKEMETI (MTA-SZTAKI Laboratory of Parallel and Distrubuted Systems)

Session Classification: Porting applications to grids using the P-GRADE portal and GEMLCA

Contribution ID: **22** Type: **not specified**

P-GRADE and GEMLCA continued

Friday, 7 July 2006 11:15 (1h 45m)

Session Classification: Porting applications to grids using the P-GRADE portal and GEMLCA

Contribution ID: **23** Type: **not specified**

An introduction to Web Services

Friday, 7 July 2006 14:00 (30 minutes)

This talk introduces the concepts of Web Services.

Session Classification: Web Services and Grids

Contribution ID: **24**   Type: **not specified**

Web services and grid computing

Friday, 7 July 2006 15:45 (1 hour)

This talk explains why Web Services are used in Grid computing and gives a broad and international overview of the current state of WS, grids and the associated standards.

Session Classification: Web Services and Grids

Contribution ID: **25**   Type: **not specified**

Practical: Web services

Friday, 7 July 2006 14:30 (1 hour)

Session Classification: Web Services and Grids

Contribution ID: **26** Type: **not specified**

Review of the tutorial and discussion

Friday, 7 July 2006 16:45 (30 minutes)

Session Classification: Web Services and Grids

Contribution ID: **27**
Type: **not specified**

Presentations

Tuesday, 4 July 2006 10:00 (1h 30m)

Session Classification: Baltic Grid presentations

Contribution ID: **28**

Type: **not specified**

Presentations

Tuesday, 4 July 2006 14:00 (1h 30m)

Session Classification: Baltic Grid presentations

Contribution ID: **29**

Type: **not specified**

Presentations

Tuesday, 4 July 2006 11:50 (1h 10m)

Session Classification: Baltic Grid presentations

Contribution ID: **30**   Type: **not specified**

Presentations

Tuesday, 4 July 2006 15:50 (1h 10m)

Session Classification: Baltic Grid presentations