

**EGEE Tutorial
09 - 10 February 2006**

Course Description:

The EGEE tutorial aims at not only providing in-depth lectures on the EGEE gLite middleware but also offering hands-on practical exercises using gLite on GILDA to those who are interested in application development on the EGEE infrastructure.

In addition, the tutorial provides a good opportunity for further exchanges between the Singapore and EGEE projects, towards future collaboration and interoperability.

Tentative agenda: <http://agenda.cern.ch/fullAgenda.php?ida=a058078>

Audience: Developers, System Administrators and Grid Practitioners interested in EGEE

Instruction Type: Hands-on Workshop

Instructors:

- Dr. Valeria Ardizzone, Istituto Nazionale di Fisica Nucleare (Italy)
- Dr. Emidio Giorgio, Istituto Nazionale di Fisica Nucleare (Italy)
- Dr. Ruediger Berlich, Forschungszentrum Karlsruhe, Institute for Scientific Computing (Germany)

Pre-requisites for this workshop:

Participants are asked to bring a laptop to the tutorial. Please refer to the Annex or http://egee-na4.ct.infn.it/ct_may_24/requirements.php for information about software required for the practicals.

Note: In a practical session to be conducted on Day 2, the participants will be able to upload their own code to run on the GILDA grid. These programs should require no more than 10 minutes of CPU time, so that results can be seen during the practical session.

Date : 09 - 10 February 2006
Time : 0900 to 1700 hours
Venue : The Big One, 21 Heng Mui Keng Terrace, Singapore 119613

Registration:

To register, fill up the attached registration form and fax to 6872-1361, or email the information required to vasu@ngp.org.sg. Registration is on a first-come-first-served basis.

Biodata of the Instructors

Dr. Valeria Ardizzone, Istituto Nazionale di Fisica Nucleare (Italy)



Dr. Valeria Ardizzone is graduated in Computer Science at University of Catania in 2003. Her professional course is Software Technician and her thesis title was "Design, development and installation of an Intelligent and Mobile Agents Platform (IMAP) FIPA compliant".

Since 2001 to 2003, she has been involved with a fixed time contract in research activity relative to EEC Project "E-Arbitration Tribunal: An Alternative Dispute Resolution for SMEs" at Computer and Telecommunications Engineering Department, University of Catania.

Since 2004 she is involved in Grid Computing activity relative to Enable Grid for E-science (EGEE) Project, at Istituto Nazionale di Fisica Nucleare. Within the EGEE activity, she is working around the Networking Activity for Application Identification and Support (NA4) and Policy and International Cooperation (NA5).

Her interests cover Web Architecture Design, Web Programming Languages, Web Design and E-Content for Dissemination Activity.

Dr. Emidio Giorgio, Istituto Nazionale di Fisica Nucleare (Italy)



Dr. Emidio Giorgio has his degree in Computer Science at the Catania University in 2003, with a thesis about automatic recognition of patterns in images. Soon later he has begun his collaboration with INFN on computational grids, joining the EGEE project in the NA3 and NA4 area, involving training and support to user applications.

The most significant experiences in the project are the participation as tutor at the 2nd and 3rd International School on Grid Computing, held in Vico Equense in the summer of 2004 and 2005, participation as tutor at the Training Day in the 4th EGEE conference held in Pisa on October 2005, and the participation as instructor to the First Latin American Workshop for Grid Administrators, held in Merida, Venezuela, in November 2005. In total, as at the end of November 2005, he has participated as tutor in 16 EGEE tutorial or demonstrations, giving remote support for many others.

On the GILDA testbed in Catania he has installed and configured many of the gLite services (WMS, LB, IO server, Fireman catalog, UI), starting from its very first release on march 2005, and taking care of upgrades for some of them till the current version.

On application support, his most significant experience was supporting the computational chemistry community at the first successful EU review of the EGEE project. He also developed a patch which adds an (actually limited) support to VOMS proxies into MyProxy suite.

Apart from Grid activities, he is also interested in web-programming and system administration. In this context, he has developed several tools and configured network services for the grid IT-infrastructure in Catania.

Dr. Ruediger Berlich, Forschungszentrum Karlsruhe, Institute for Scientific Computing (Germany)



Dr. Ruediger Berlich has studied physics at the University of Bochum in Germany. Until 2001 he was a member of SuSE Linux AG, then Europe's leading Linux distributor. Among other duties, he has served as Technical Manager (Support) of SuSE's US office in Oakland/California and as founder and Managing Director of SuSE's UK office SuSE Linux Ltd. near London/UK.

In January 2004, he finished a PHD at Bochum University, relating to particle physics and distributed computing. Since then he has been active in the field of Grid Computing at Forschungszentrum Karlsruhe, Germany's largest independent research institution.

Apart from his research activities, he is responsible for the work areas "training" and "dissemination and outreach" of the largest EU Grid initiative, EGEE ("Enabling Grids for E-Science"), on behalf of the German/Swiss EGEE federation. To find out more about Ruediger and to get in contact with him please visit <http://ruediger.berlich.com>

Annex Configuration

Base

SSH client

If you use WindowsXX, to log in on the User interface, you will need a SSH client that you can find here: <http://alipc1.ct.infn.it/grid/software/SSHSecureShellClient-3.2.9.exe>

Using Linux, you should already installed it by default. If it's not so, please do it.

Internet browser

Assure that Java and Javascript are enabled on your web browser. The supported browsers are

- Windows : Internet Explorer 6.0 or higher, Mozilla 1.6 or higher (latest version is strongly recommended).
- Linux : Mozilla 1.6 or higher (latest version is strongly recommended).

You can find Mozilla here: <http://www.mozilla.org/products/mozilla1.x/download/>

Graphic

Windows

- The Cortona VRML plug-in (click here to download it: <http://alipc1.ct.infn.it/grid/software/cortvrml.exe>). Users with both Mozilla and Internet Explorer should ensure that this plugin is installed into the browser to be used to access the GENIUS Portal.

Linux

- The VRML plugin. This plugin is installed by the following process:
 1. Go to the web site <http://cic.nist.gov/vrml/vbdetect.html>.
 2. In the "VRML Plugin" section, click on OpenVRML-Lookat for Linux.
 3. Click on "download" for openvrml version 0.14.3.
 4. The packages to download are:

```
lookat-0.14.3-1.i386.rpm
openvrml-0.14.3-1.i386.rpm
openvrml-gl-0.14.3-1.i386.rpm
```
 5. Go to <http://rpmfind.net> type "glut" on the Search window
 6. Download the glut RPM appropriate for your system above version 3.7 (e.g., for RedHat-9, choose glut-3.7-12.i386.rpm)
 7. Become root on your machine, go to the directory were you put all the RPM's, and type the follow instruction:

```
rpm -ivh lookat-0.14.3-1.i386.rpm openvrml-0.14.3-1.i386.rpm
openvrml-gl-0.14.3-1.i386.rpm <glut_for_your_system>.rpm
```

8. Open Mozilla and go to Edit -> Preferences
9. Choose "Helper Application" and then click "New Type"
10. In the field "MIME Type" insert "model/vrml" and in the field "Extension" insert "wrl". Finally select the option "Open it with" in the section "when a file of this type is encountered" and insert "/usr/bin/lookat".
At the end, confirm with OK

Course Registration Form

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|--|-------------|
| Name (Dr/Mr/Ms) | Designation |
| Organisation | |
| Organisation Address | |
| Contact Number | Fax Number |
| Email Address | |
| Sign me up! | |
| <input type="checkbox"/> At only S\$399 nett (include GST). Course materials, lunch & tea breaks will be provided. | |
| Send invoice to the following at the above address: | |
| Name | |