



Enabling Grids for E-science

The GENIUS portal and the GILDA t-Infrastructure

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University of Catania and INFN

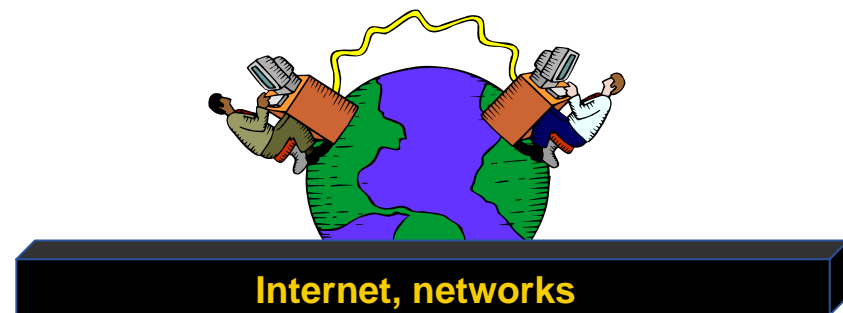
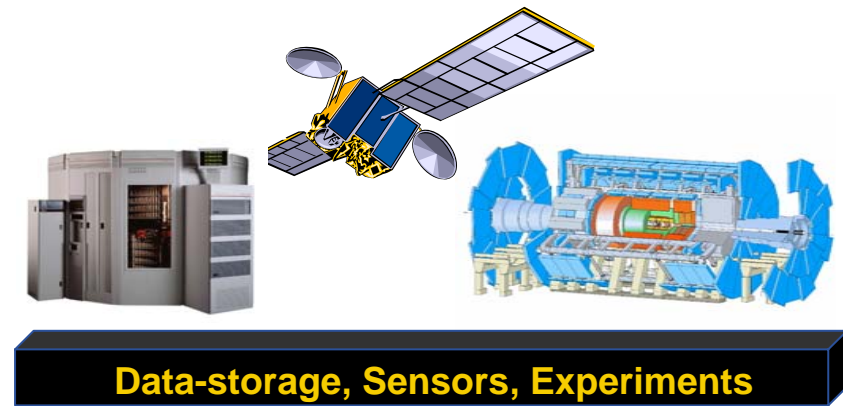
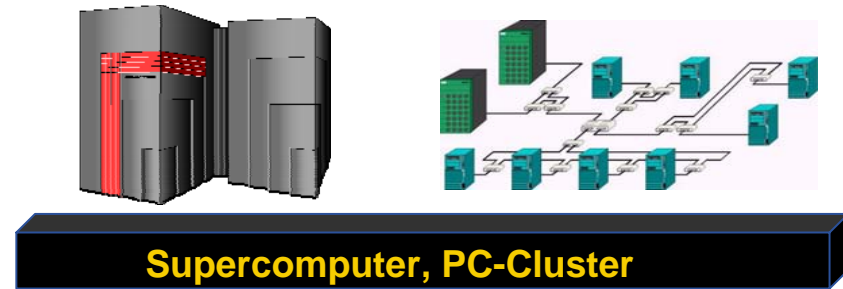
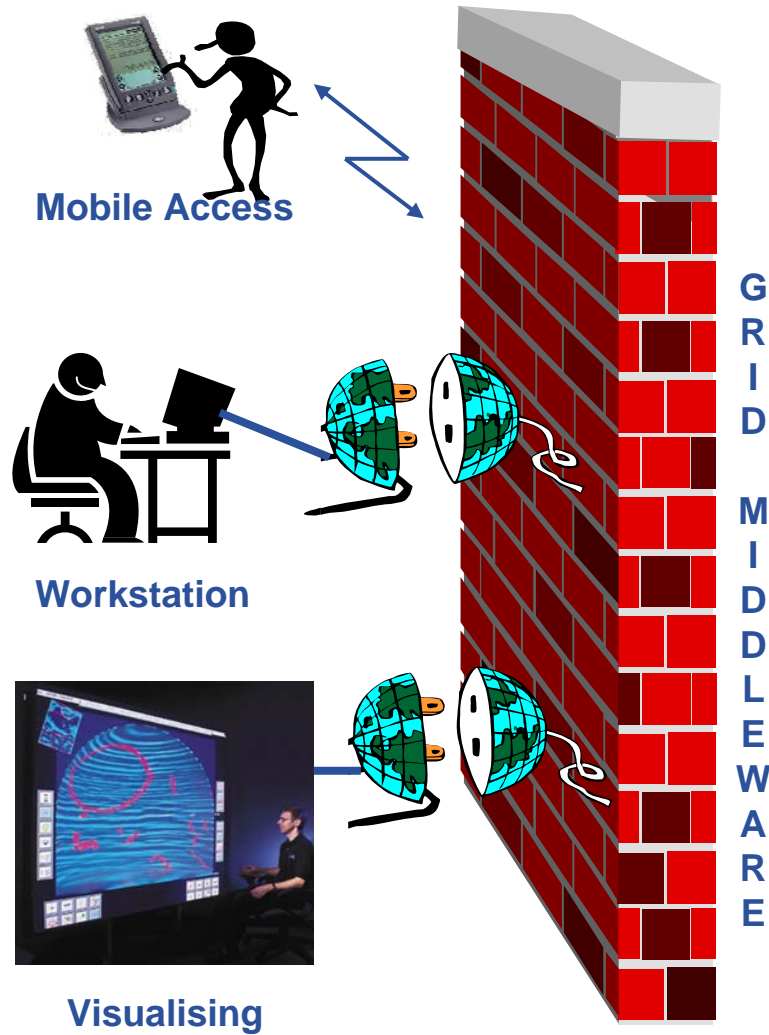
EGEE Tutorial

Roma, 02.11.2005

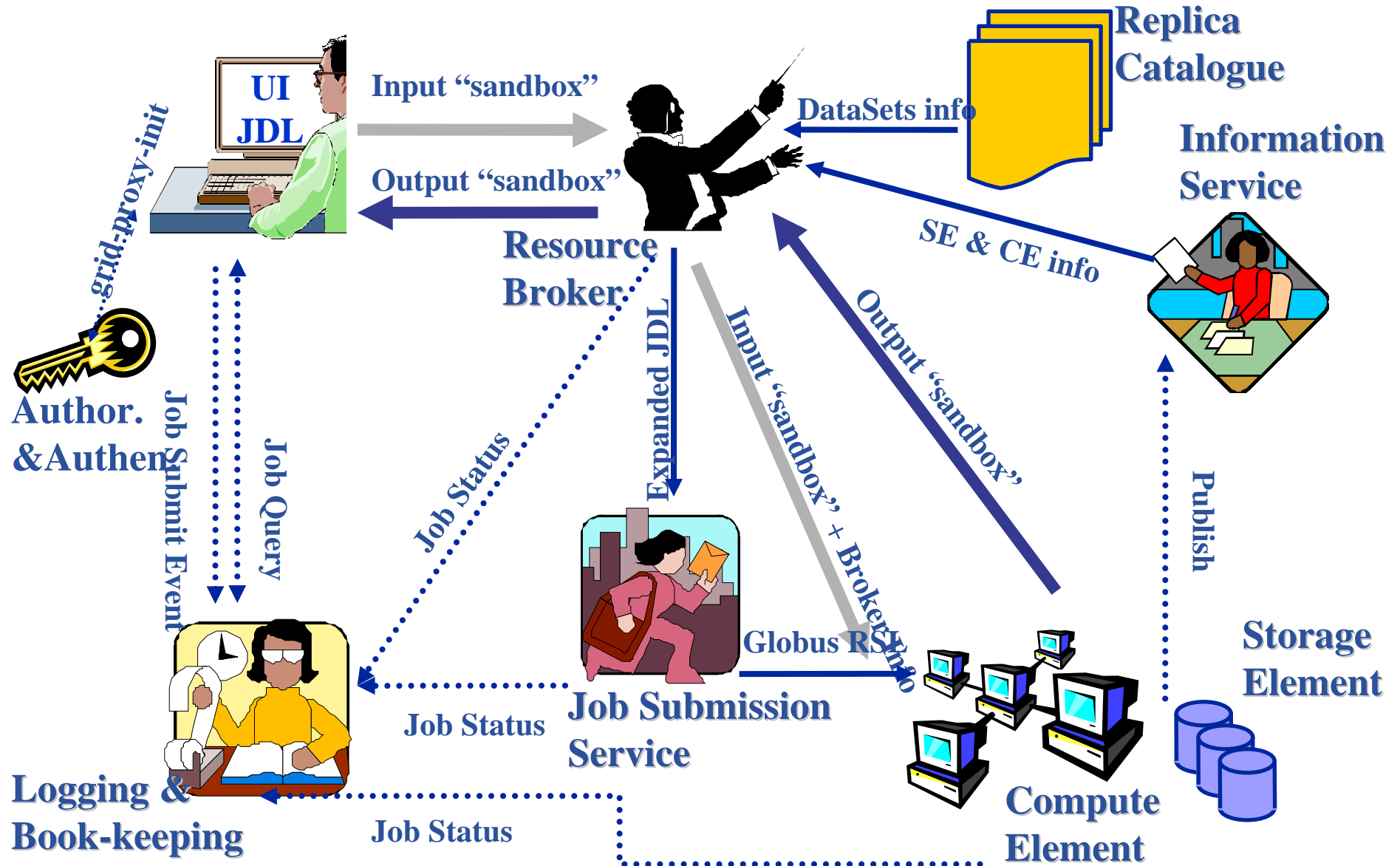
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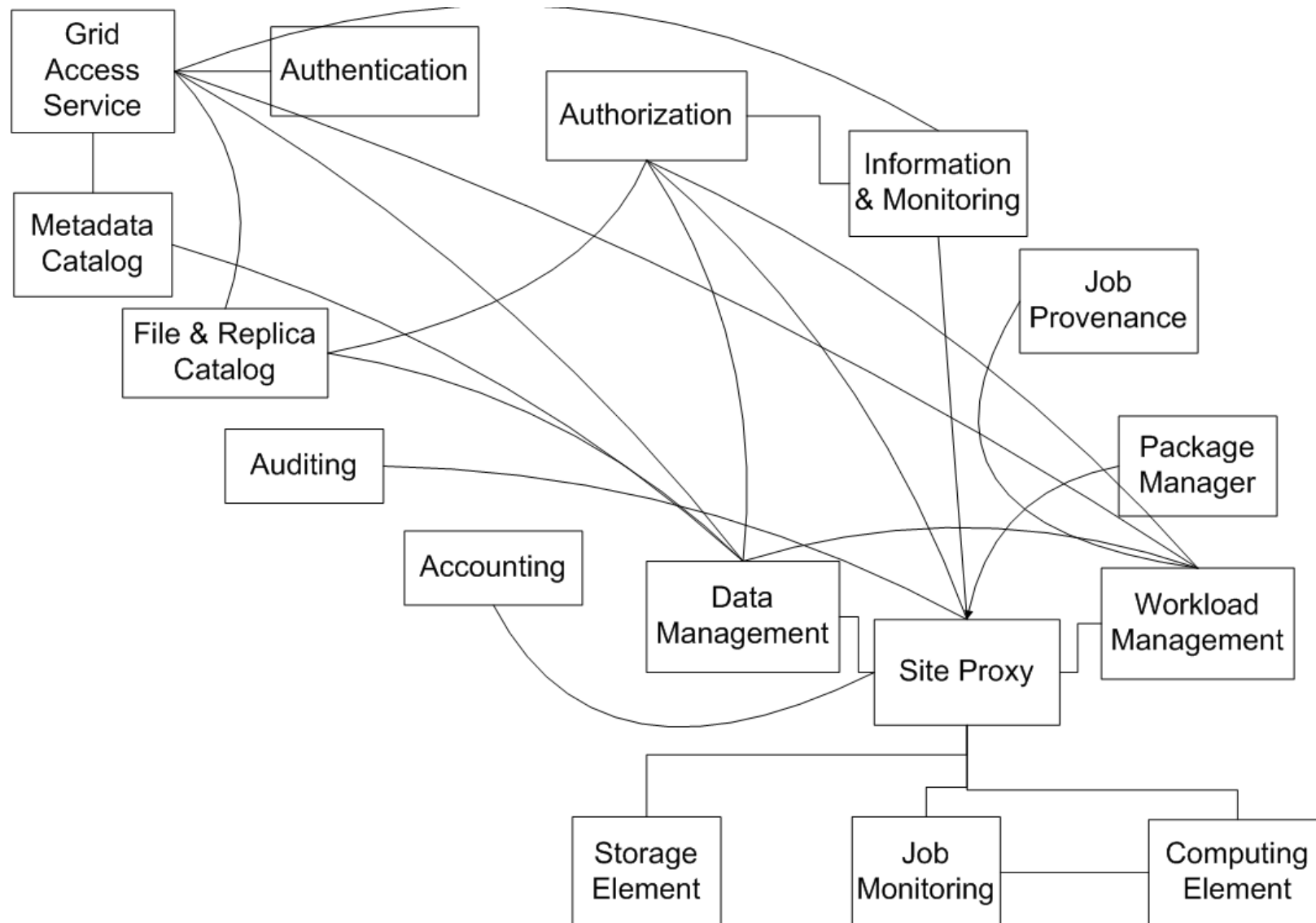


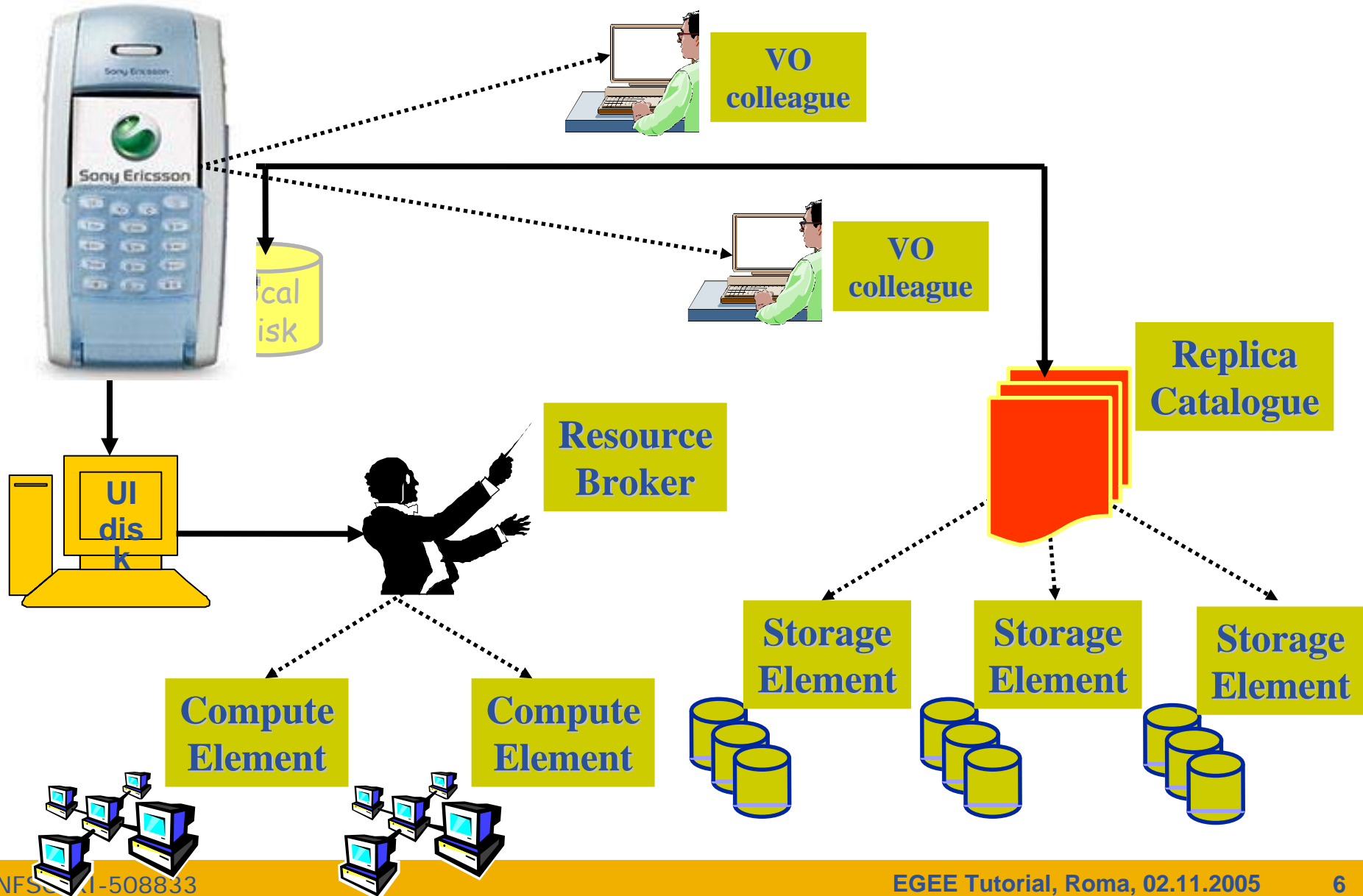
- **Introduction**
- **The GENIUS portal**
- **The GILDA t-Infrastructure**
 - services
 - tools
 - applications
 - tutorial lay-out
- **Summary and conclusions**



A typical job workflow







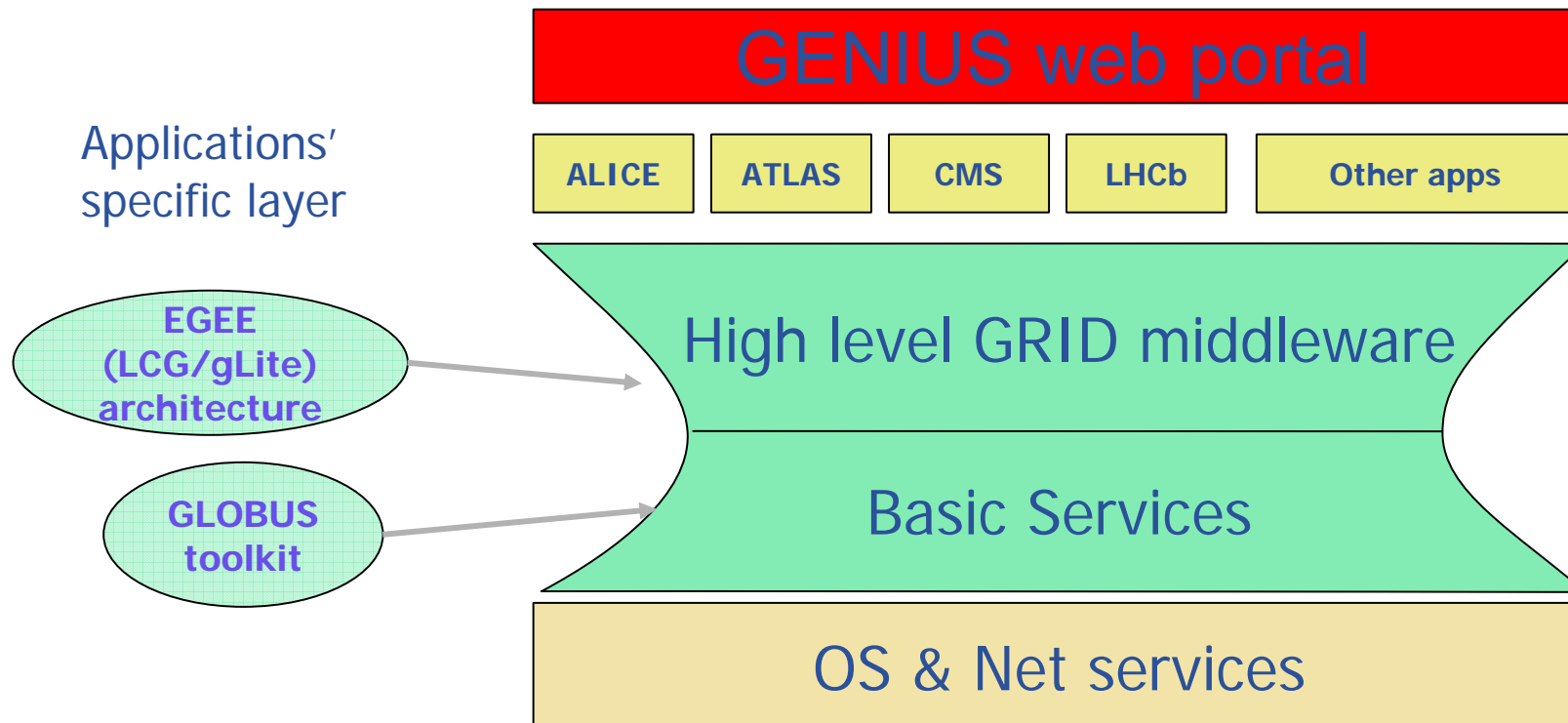


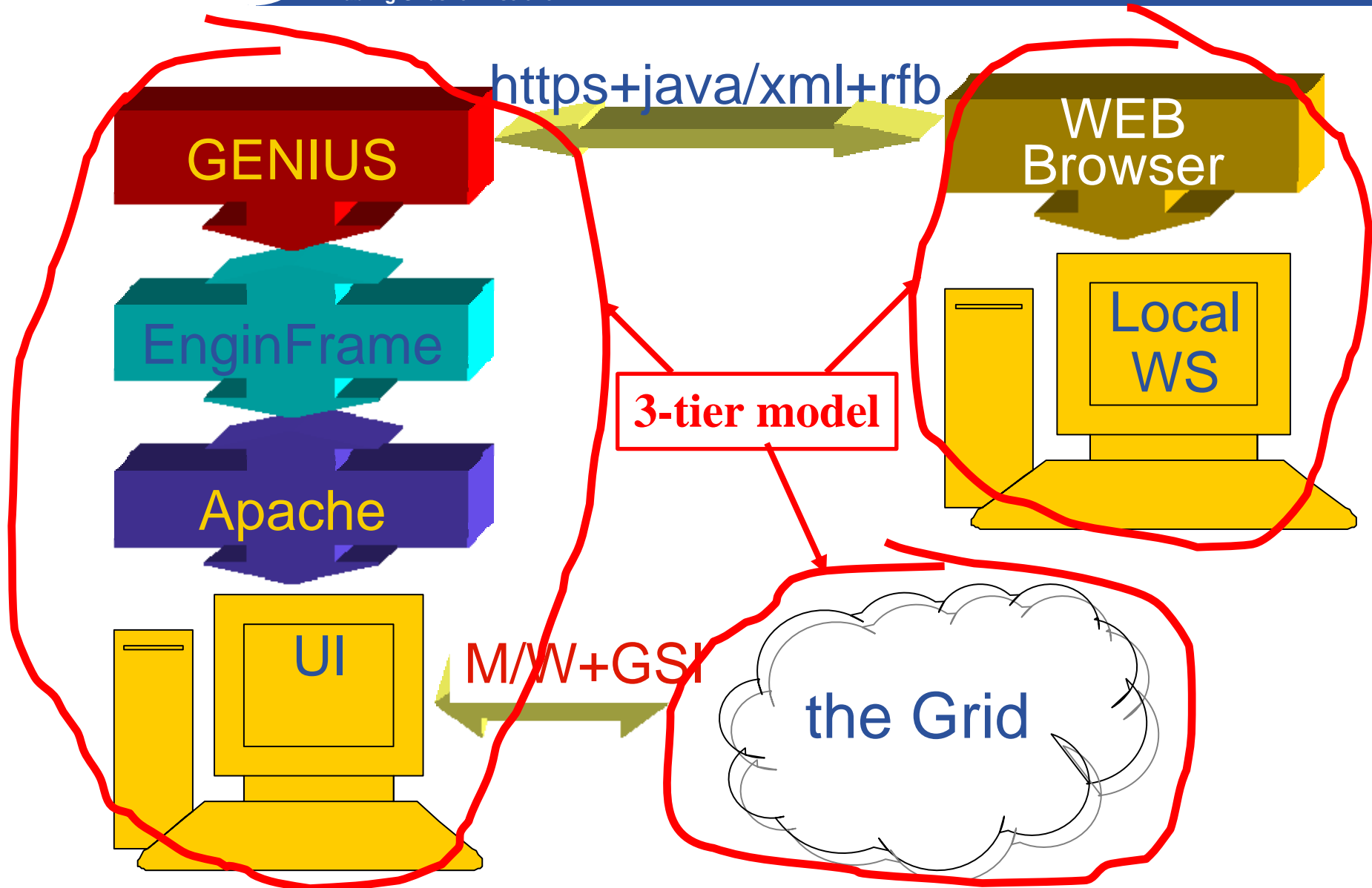
GENIUS®

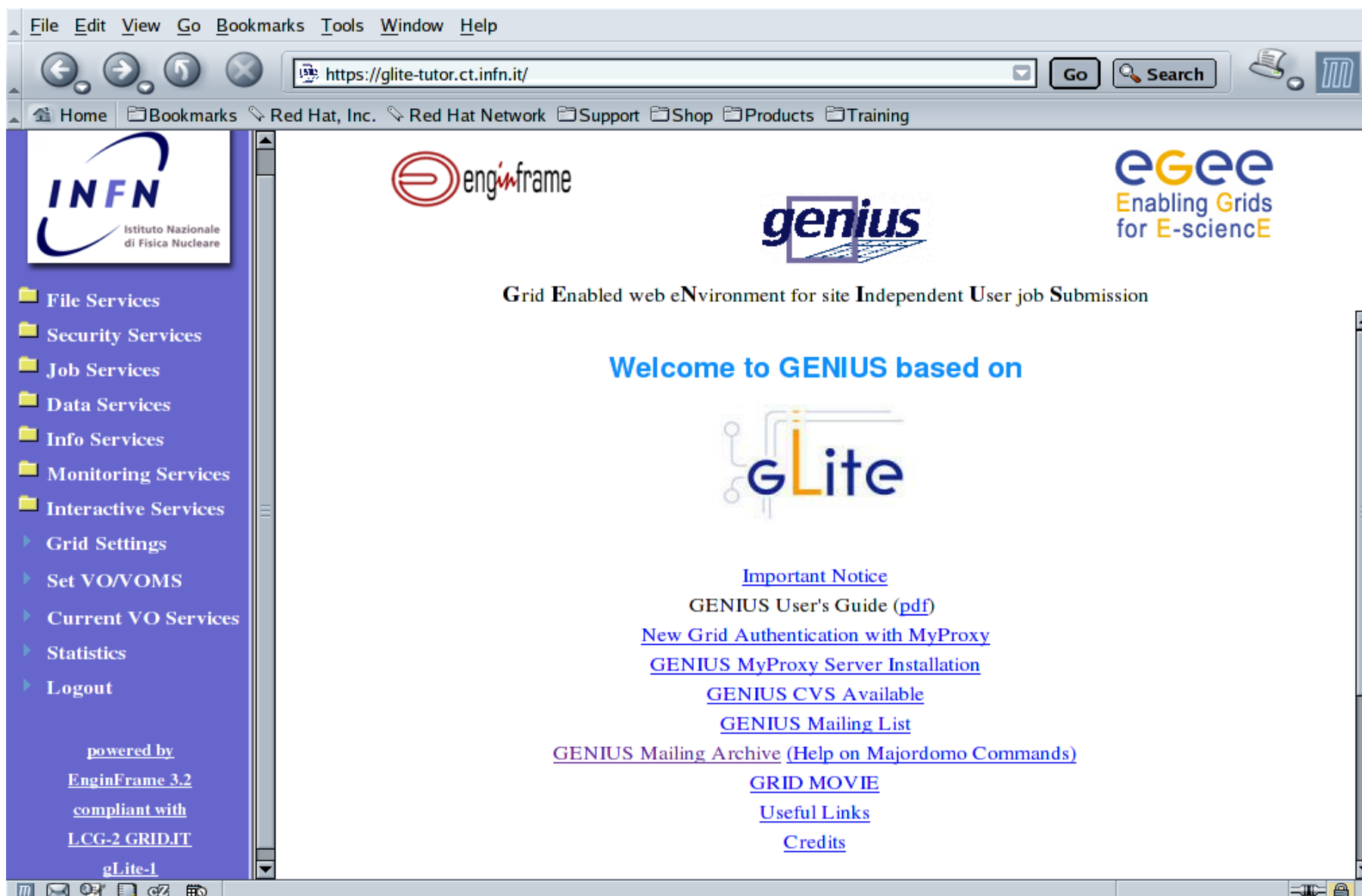
(Grid Enabled web eNvironment for site Independent User job Submission)

<https://genius.ct.infn.it>

INFN/NICE collaboration







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Welcome to GENIUS based on

gLite

[Important Notice](#)
[GENIUS User's Guide \(pdf\)](#)
[New Grid Authentication with MyProxy](#)
[GENIUS MyProxy Server Installation](#)
[GENIUS CVS Available](#)
[GENIUS Mailing List](#)
[GENIUS Mailing Archive \(Help on Majordomo Commands\)](#)
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RB: cnaf_gridit VO: alice RLS: GRIDIT Your Data Logout

File Services

- up
- Create a File
- View a File
- Edit a File
- Rename a File/Directory
- Delete a File/Directory
- Create a Directory
- Upload a TAR ball
- Upload a file
- Show the Environment

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View a File

With this service you may view a file in your home directory.

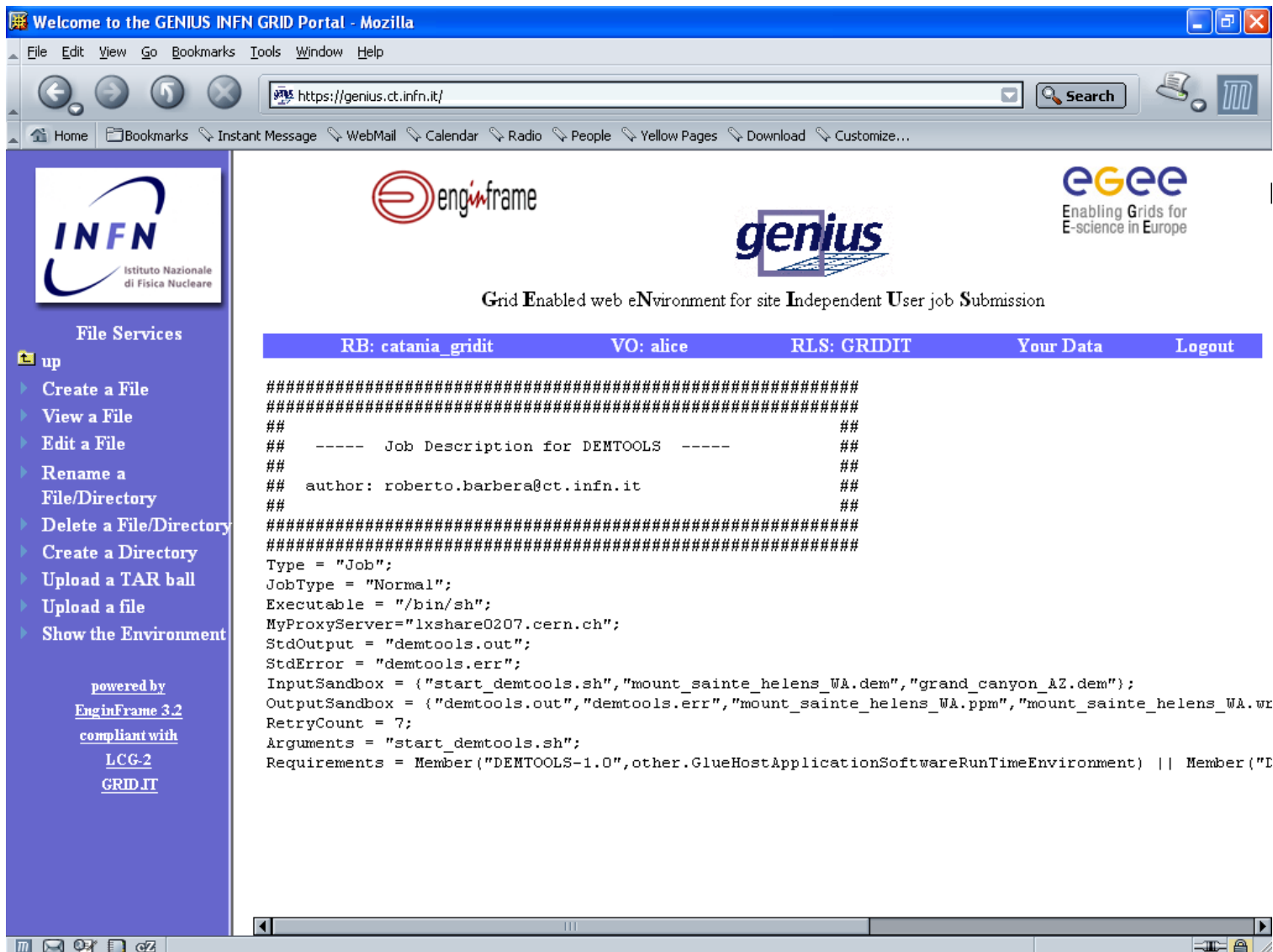
Select File to View

Remote File Browsing - Mozilla

alice_rc_mss.conf	414
aliroot.jdl	1,644
aliroot	1,136
authentication.log	294
csound.jdl	807
csound.orc	2,633
csound.sco	2,491
defcity.pov	1,951
demtools.jdl	1,158
dna.pov	4,731
edg_wl_ui_gui_log4j.log	0
edglog.log	1,050
file_09003.txt	14
golden_CO.dem	1,098,752
grand_canyon_AZ.dem	1,160,192

Path: /home/barbera

Selected: aliroot.jdl



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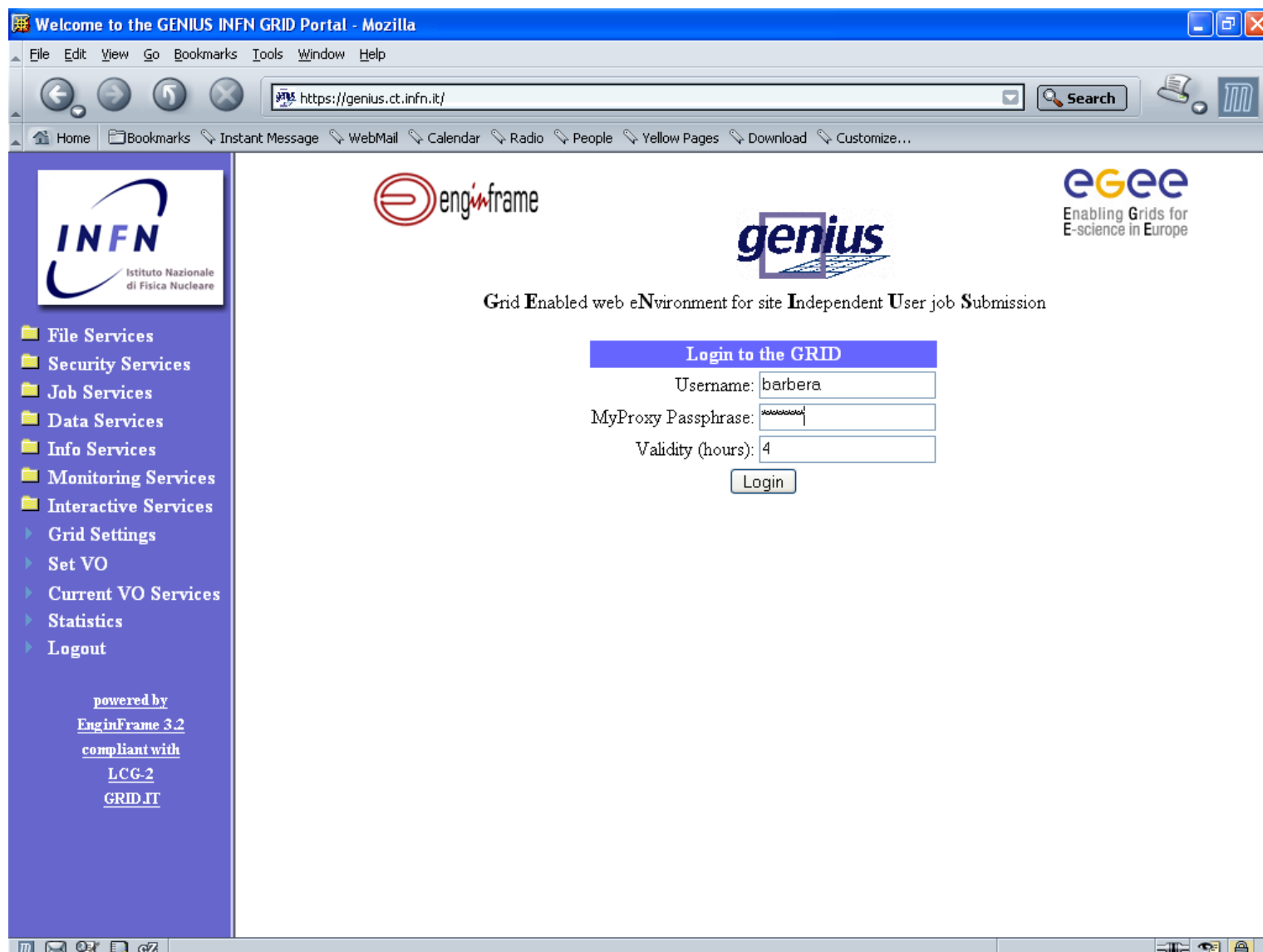
RB: catania_gridit **VO: alice** **RLS: GRIDIT** **Your Data** **Logout**

up

- Create a File
- View a File
- Edit a File
- Rename a File/Directory
- Delete a File/Directory
- Create a Directory
- Upload a TAR ball
- Upload a file
- Show the Environment

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```
#####
#####
##                               ##
## ----- Job Description for DEMTOOLS ----- ##
##                               ##
## author: roberto.barbera@ct.infn.it          ##
##                               ##
#####
#####
Type = "Job";
JobType = "Normal";
Executable = "/bin/sh";
MyProxyServer="lxshare0207.cern.ch";
StdOutput = "demtools.out";
StdError = "demtools.err";
InputSandbox = ("start_demtools.sh","mount_sainte_helens_WA.dem","grand_canyon_AZ.dem");
OutputSandbox = ("demtools.out","demtools.err","mount_sainte_helens_WA.ppm","mount_sainte_helens_WA.wr
RetryCount = 7;
Arguments = "start_demtools.sh";
Requirements = Member("DEMTTOOLS-1.0",other.GlueHostApplicationSoftwareRunTimeEnvironment) || Member("D
```

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Login to the GRID

Username:

MyProxy Passphrase:

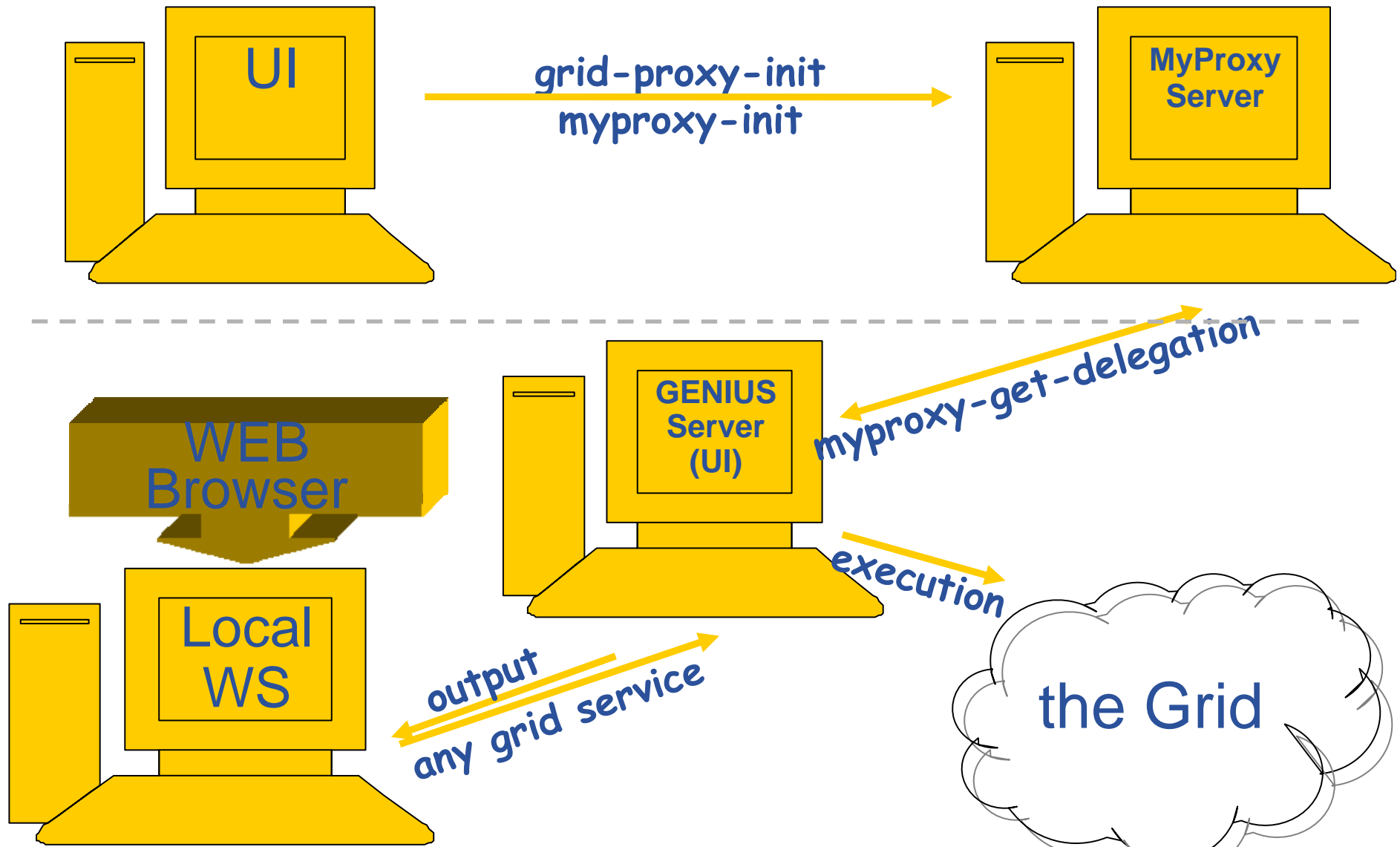
Validity (hours):

Login

File Services
Security Services
Job Services
Data Services
Info Services
Monitoring Services
Interactive Services
Grid Settings
Set VO
Current VO Services
Statistics
Logout

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Grid authentication with MyProxy





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RB: cnaf_gridit VO: alice RLS: GRIDIT Your Data Logout

Grid Settings

With this service you can select the Resource Broker and the Replica Location Server you want to use.

It is possible also to set the MyProxy Server on which you stored your temporary proxy to get from GRID Authentication.

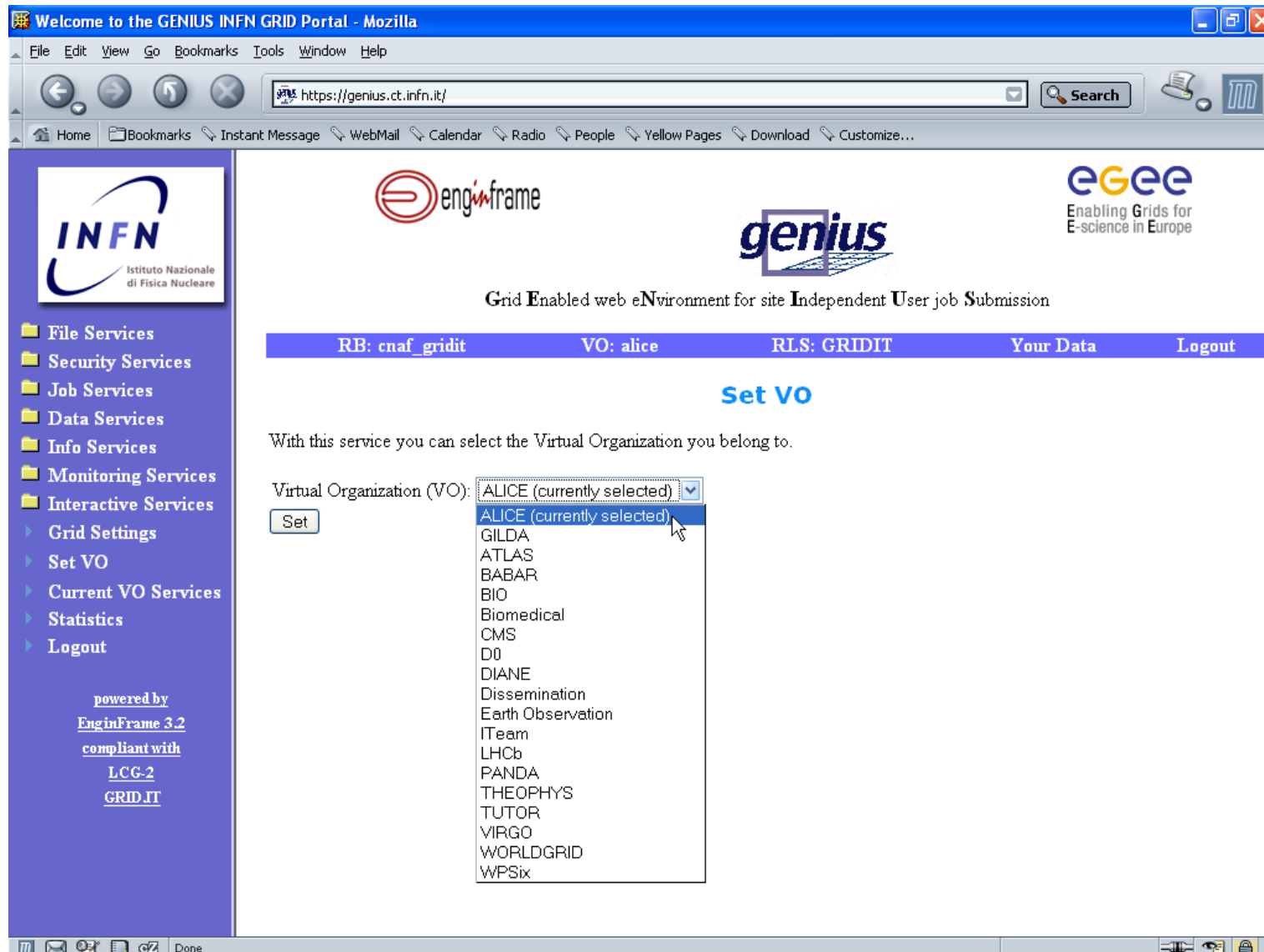
Resource Broker (RB): CNAF GRIDIT (currently selected) ▾

Replica Location Server (RLS): GRIDIT (currently selected) ▾

MyProxy Server: grid001.ct.infn.it (currently selected) ▾

Update

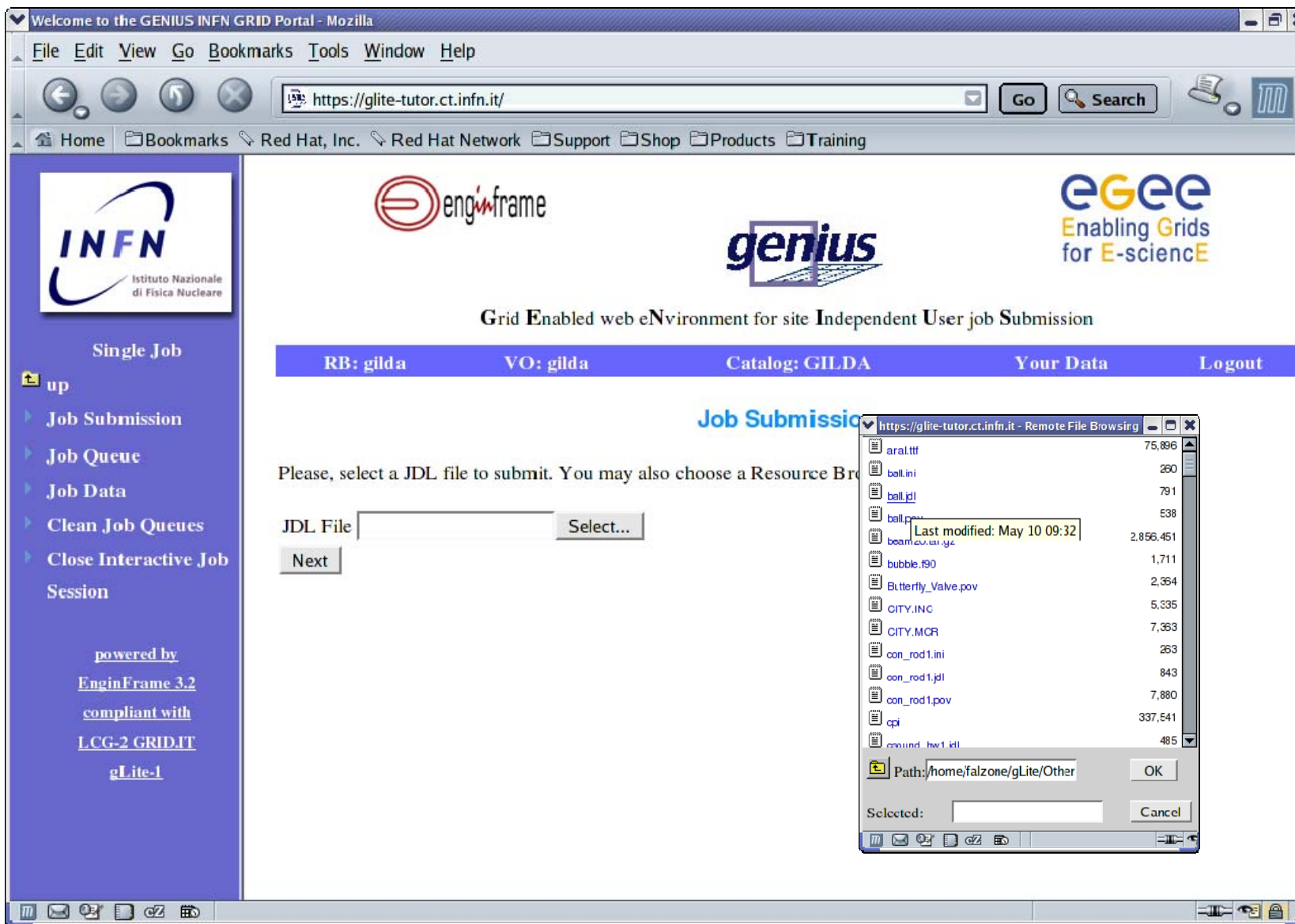
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The screenshot shows a Mozilla browser window titled "Welcome to the GENIUS INFN GRID Portal - Mozilla". The address bar shows "https://genius.ct.infn.it/". The page features logos for "enginframe", "genius", and "eGEE Enabling Grids for E-science in Europe". A navigation bar displays "RB: cnaf_gridit", "VO: alice", "RLS: GRIDIT", "Your Data", and "Logout".

The main content area is titled "Set VO" and includes the text: "With this service you can select the Virtual Organization you belong to." Below this is a form with a dropdown menu labeled "Virtual Organization (VO):" showing "ALICE (currently selected)" and a "Set" button. The dropdown menu is open, listing various Virtual Organizations: ALICE (currently selected), GILDA, ATLAS, BABAR, BIO, Biomedical, CMS, D0, DIANE, Dissemination, Earth Observation, ITeam, LHCb, PANDA, THEOPHYS, TUTOR, VIRGO, WORLDGRID, and WPSix.

A left sidebar contains a navigation menu with categories like "File Services", "Security Services", "Job Services", "Data Services", "Info Services", "Monitoring Services", and "Interactive Services". At the bottom of the sidebar, it states "powered by EnginFrame 3.2 compliant with LCG-2 GRID.IT".







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Grid Enabled web eNvironment for site Independent User job Submission

RB: gilda VO: gilda Catalog: GILDA Your Data Logout

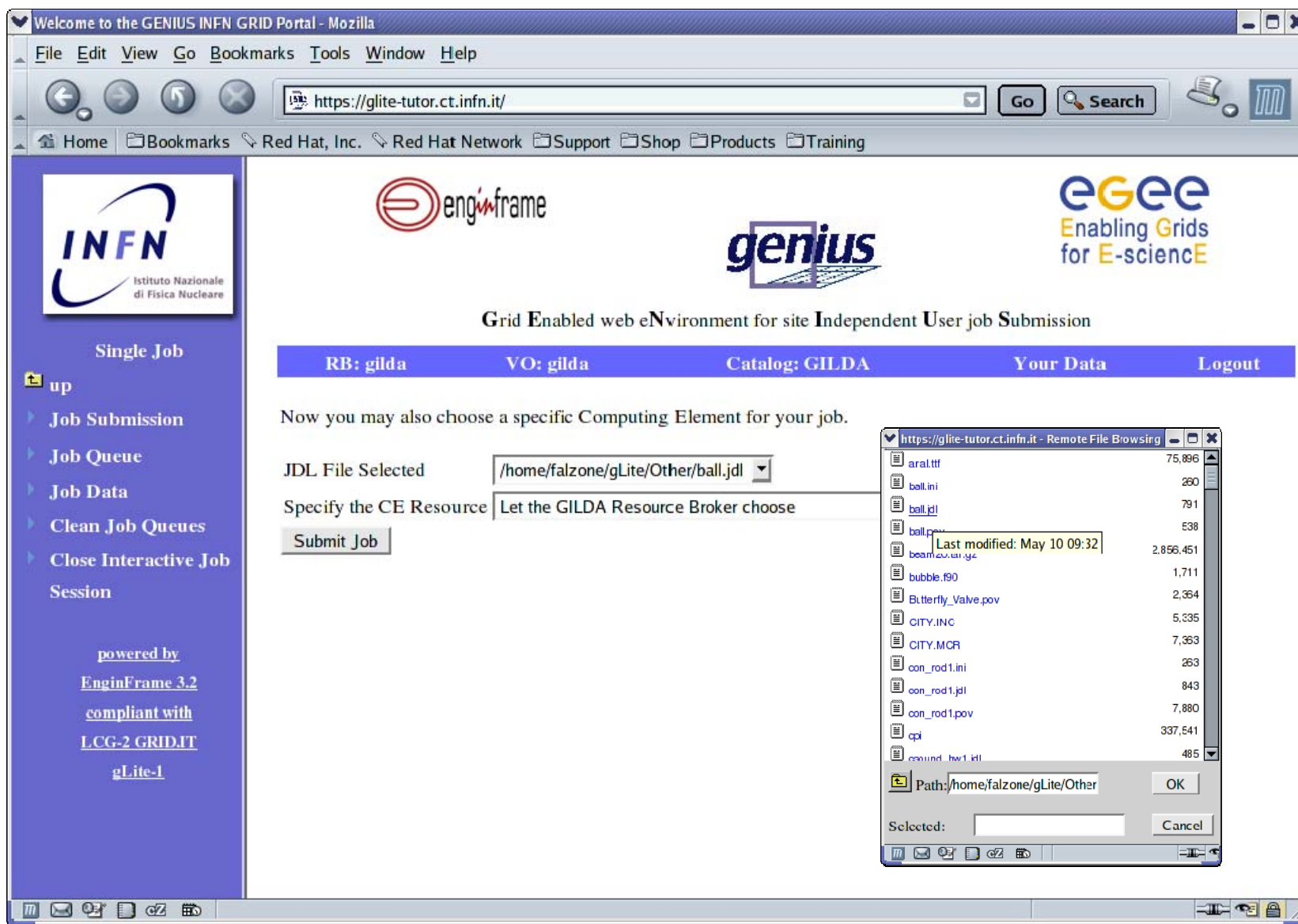
Job Submission

Please, select a JDL file to submit. You may also choose a Resource Bro...

JDL File

https://glite-tutor.ct.infn.it - Remote File Browser
 aral.tff 75,896
 ball.ini 260
 ball.jdl 791
 ball.pov 538
 Last modified: May 10 09:32
 bean.ct.infn.it 2,856,451
 bubble.f90 1,711
 Butterfly_Valve.pov 2,364
 CITY.INC 5,335
 CITY.MCR 7,363
 con_rod1.ini 263
 con_rod1.jdl 843
 con_rod1.pov 7,880
 cpi 337,541
 ground_hw1.kit 485
 Path:/home/falzone/gLite/Other
 Selected:

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gLite-1

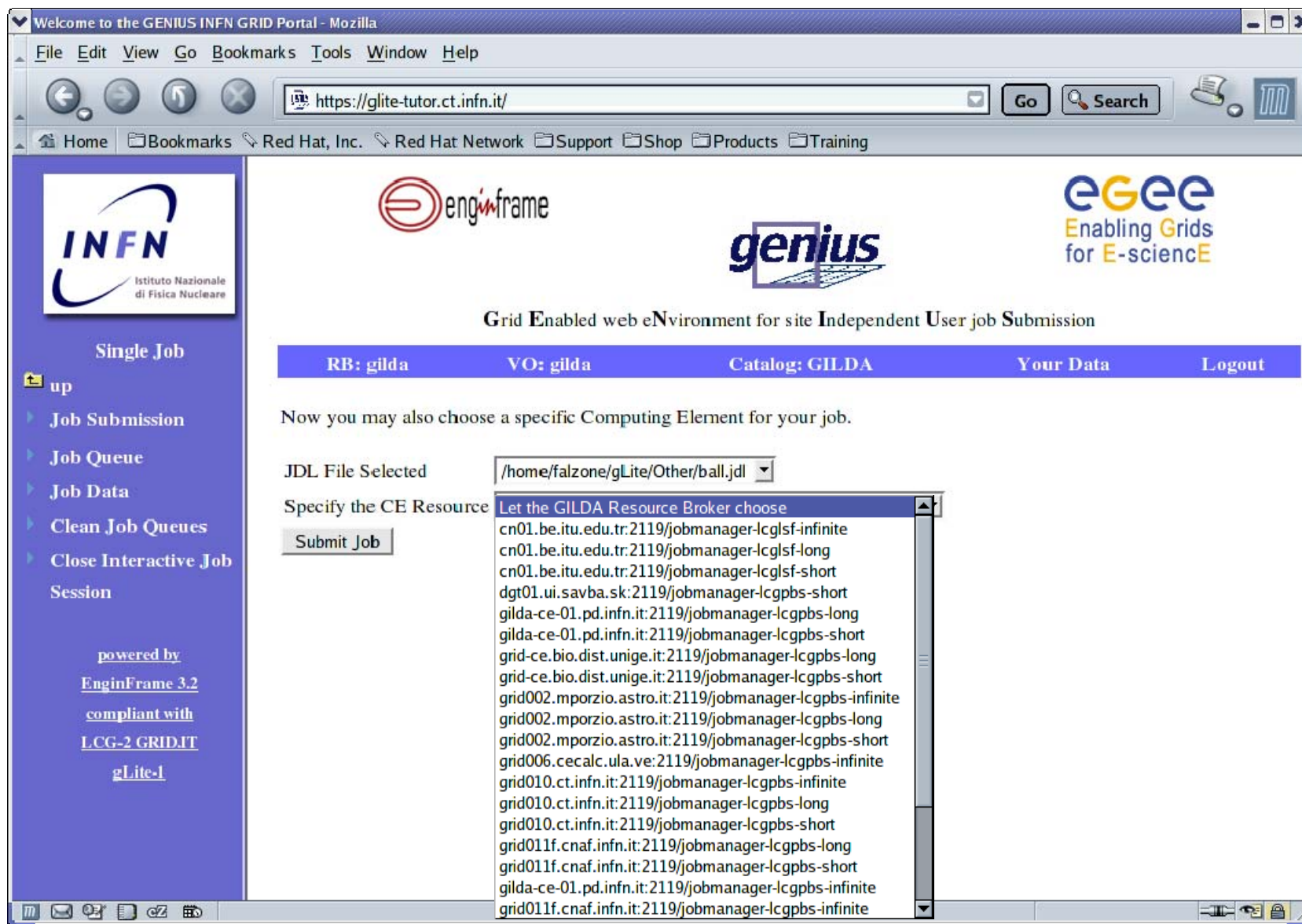


The screenshot shows a Mozilla browser window titled "Welcome to the GENIUS INFN GRID Portal - Mozilla" with the address bar set to "https://glite-tutor.ct.infn.it/". The page features logos for INFN (Istituto Nazionale di Fisica Nucleare), EnginFrame, genius, and EGEE (Enabling Grids for E-science). A navigation bar includes "RB: gilda", "VO: gilda", "Catalog: GILDA", "Your Data", and "Logout".

The main content area displays the text: "Grid Enabled web eNvironment for site Independent User job Submission". Below this, it says "Now you may also choose a specific Computing Element for your job." The "JDL File Selected" field contains "/home/falzone/gLite/Other/ball.jdl". The "Specify the CE Resource" field is set to "Let the GILDA Resource Broker choose". A "Submit Job" button is visible.

A "Remote File Browser" window is open, showing a file list with columns for file names and sizes. The file "ball.jdl" is highlighted. The "Path" field shows "/home/falzone/gLite/Other".

On the left side of the browser window, there is a vertical navigation menu with the following items: "Single Job", "up", "Job Submission", "Job Queue", "Job Data", "Clean Job Queues", and "Close Interactive Job Session". At the bottom of this menu, it states "powered by EnginFrame 3.2 compliant with LCG-2 GRID.IT gLite-1".

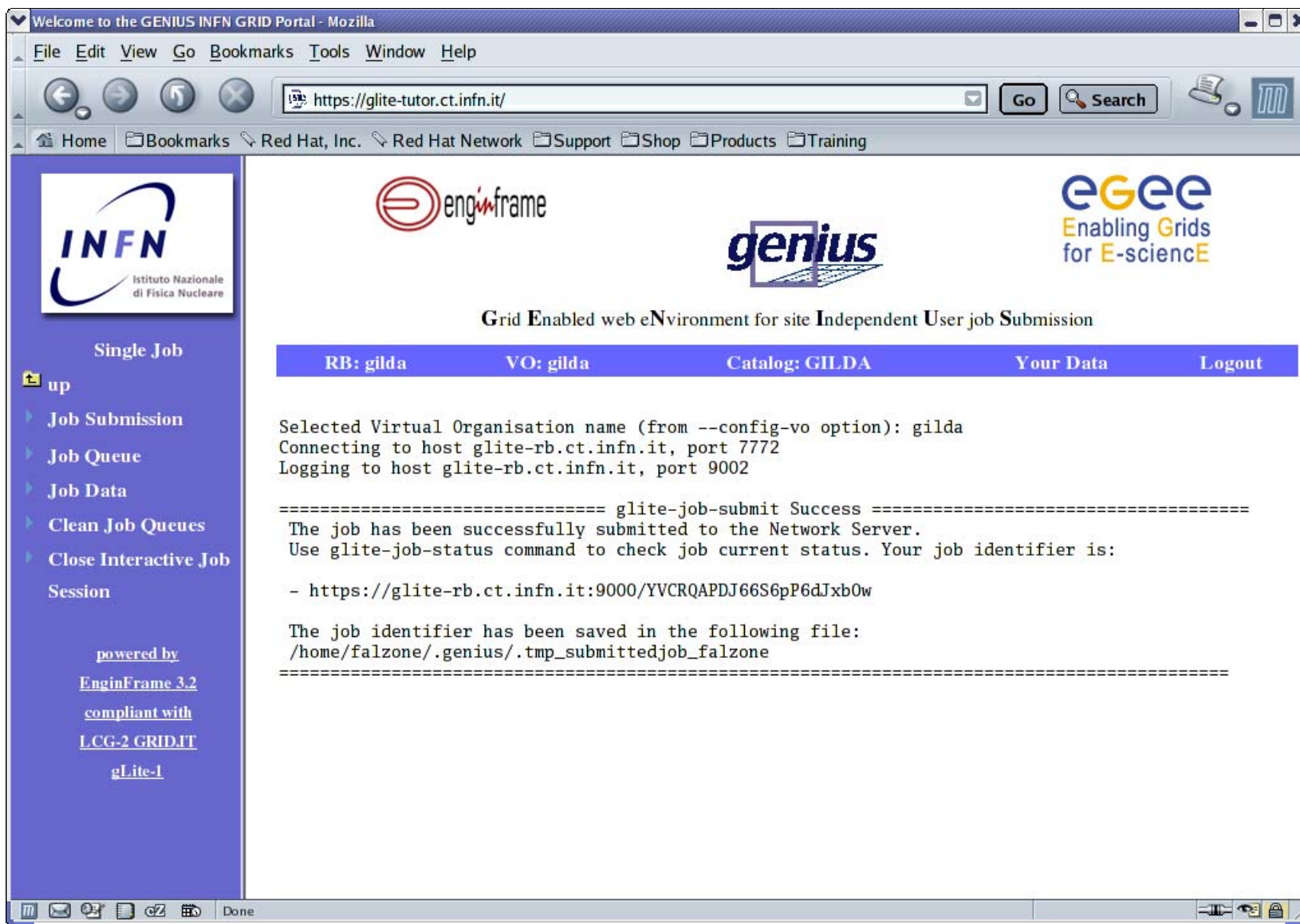


The screenshot shows a Mozilla browser window titled "Welcome to the GENIUS INFN GRID Portal - Mozilla". The address bar contains "https://glite-tutor.ct.infn.it/". The page features logos for INFN (Istituto Nazionale di Fisica Nucleare), EnginFrame, genius, and EGEE (Enabling Grids for E-science). A navigation bar includes "RB: gilda", "VO: gilda", "Catalog: GILDA", "Your Data", and "Logout".

The main content area displays the text: "Grid Enabled web eNvironment for site Independent User job Submission". Below this, there are links for "Job Submission", "Job Queue", "Job Data", "Clean Job Queues", and "Close Interactive Job Session".

The "JDL File Selected" field shows "/home/falzone/gLite/Other/ball.jdl". The "Specify the CE Resource" dropdown menu is open, showing a list of resources including "Let the GILDA Resource Broker choose", "cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-infinite", "cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-long", "cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-short", "dgt01.ui.savba.sk:2119/jobmanager-lcgpbs-short", "gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-long", "gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-short", "grid-ce.bio.dist.unige.it:2119/jobmanager-lcgpbs-long", "grid-ce.bio.dist.unige.it:2119/jobmanager-lcgpbs-short", "grid002.mporzio.astro.it:2119/jobmanager-lcgpbs-infinite", "grid002.mporzio.astro.it:2119/jobmanager-lcgpbs-long", "grid002.mporzio.astro.it:2119/jobmanager-lcgpbs-short", "grid006.cecalc.ula.ve:2119/jobmanager-lcgpbs-infinite", "grid010.ct.infn.it:2119/jobmanager-lcgpbs-infinite", "grid010.ct.infn.it:2119/jobmanager-lcgpbs-long", "grid010.ct.infn.it:2119/jobmanager-lcgpbs-short", "grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-long", "grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-short", "gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-infinite", and "grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-infinite". A "Submit Job" button is visible below the dropdown.

The footer of the page includes "powered by EnginFrame 3.2 compliant with LCG-2 GRIDIT gLite-1".



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Grid Enabled web eNvironment for site Independent User job Submission

RB: gilda VO: gilda Catalog: GILDA Your Data Logout

Selected Virtual Organisation name (from --config-vo option): gilda
Connecting to host glite-rb.ct.infn.it, port 7772
Logging to host glite-rb.ct.infn.it, port 9002

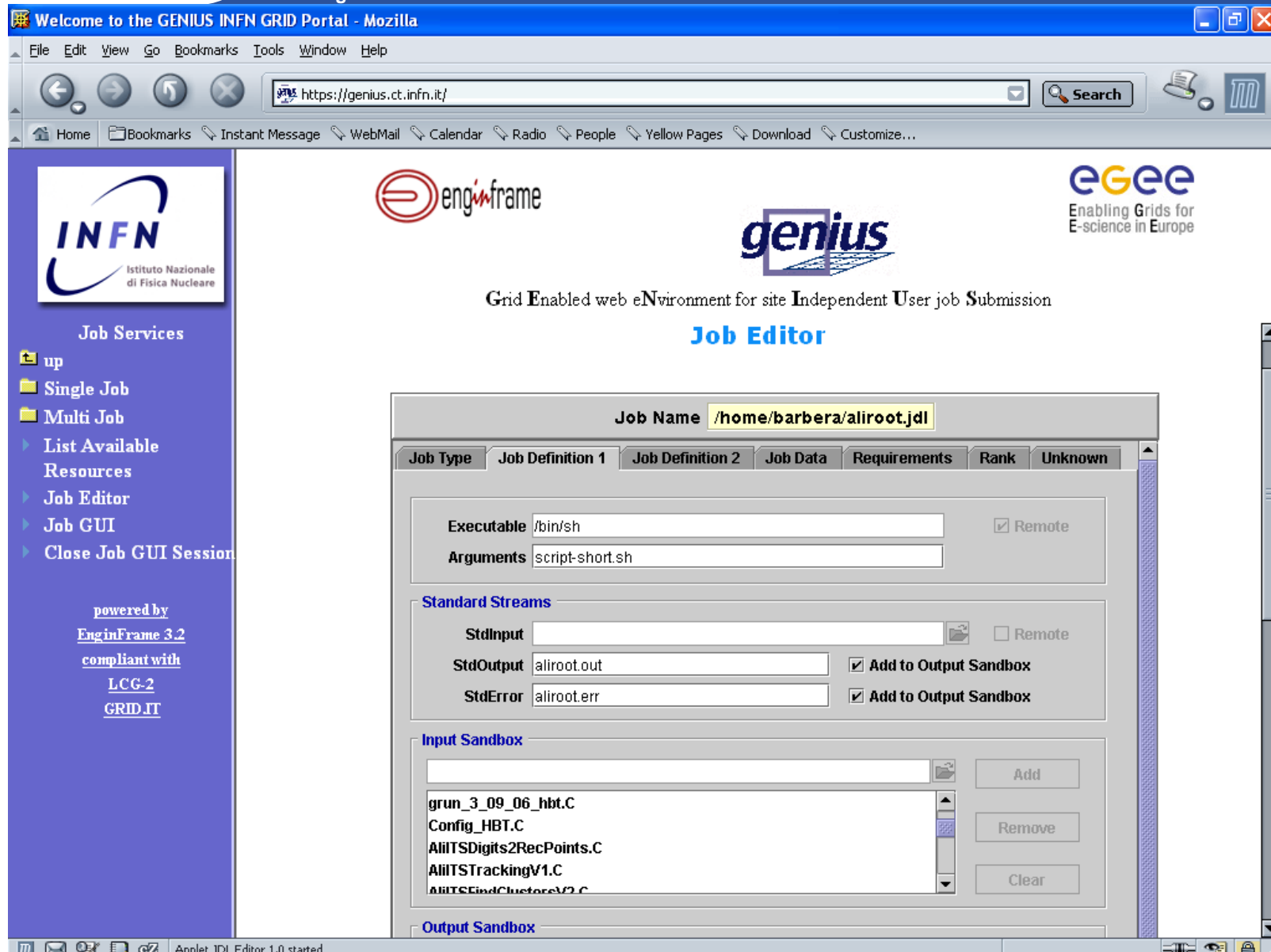
===== glite-job-submit Success =====
The job has been successfully submitted to the Network Server.
Use glite-job-status command to check job current status. Your job identifier is:

- https://glite-rb.ct.infn.it:9000/YVCRQAPDJ66S6pP6dJxb0w

The job identifier has been saved in the following file:
/home/falzone/.genius/.tmp_submittedjob_falzone
=====

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Done

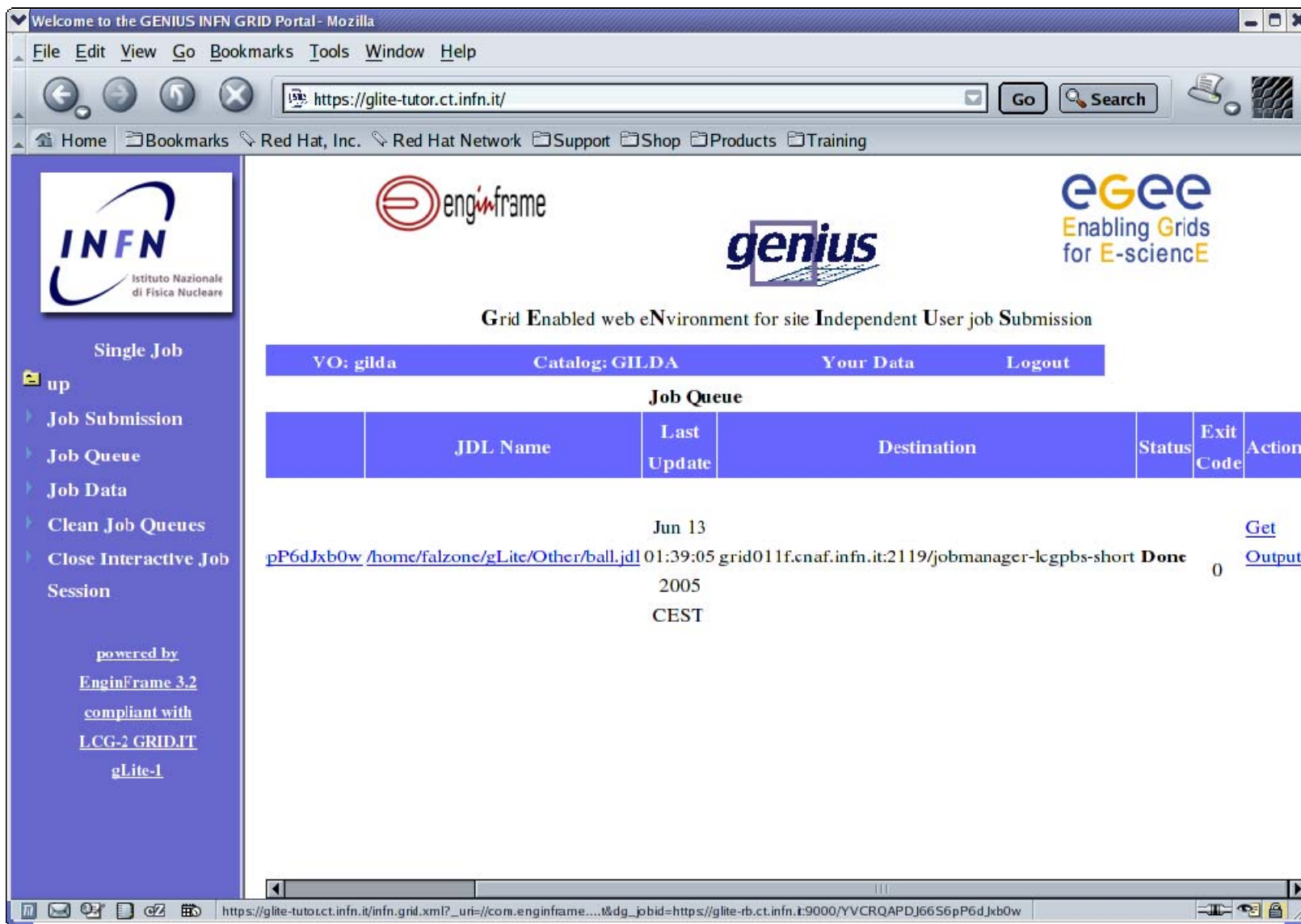


The screenshot shows a Mozilla browser window titled "Welcome to the GENIUS INFN GRID Portal - Mozilla" with the address bar set to "https://genius.ct.infn.it/". The page features logos for INFN (Istituto Nazionale di Fisica Nucleare), EnginFrame, and eGEE (Enabling Grids for E-science in Europe). The main heading is "Grid Enabled web eNvironment for site Independent User job Submission" followed by "Job Editor".

The interface includes a left sidebar with "Job Services" and a main content area for editing a job. The job name is "/home/barbera/aliroot.jdl". The "Job Definition 1" tab is active, showing the following fields:

- Executable:** /bin/sh (with a Remote checkbox)
- Arguments:** script-short.sh
- Standard Streams:**
 - StdInput:** (empty field, with a Remote checkbox)
 - StdOutput:** aliroot.out (with a checked Add to Output Sandbox checkbox)
 - StdError:** aliroot.err (with a checked Add to Output Sandbox checkbox)
- Input Sandbox:** A list of files including grun_3_09_06_hbt.C, Config_HBT.C, AllITSDigits2RecPoints.C, AllITSTrackingV1.C, and AllITSEndClustersV2.C. It includes "Add", "Remove", and "Clear" buttons.
- Output Sandbox:** (partially visible at the bottom)

The browser's status bar at the bottom indicates "Applet JDL Editor 1.0 started".




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Single Job

- up
- Job Submission
- Job Queue
- Job Data
- Clean Job Queues
- Close Interactive Job Session

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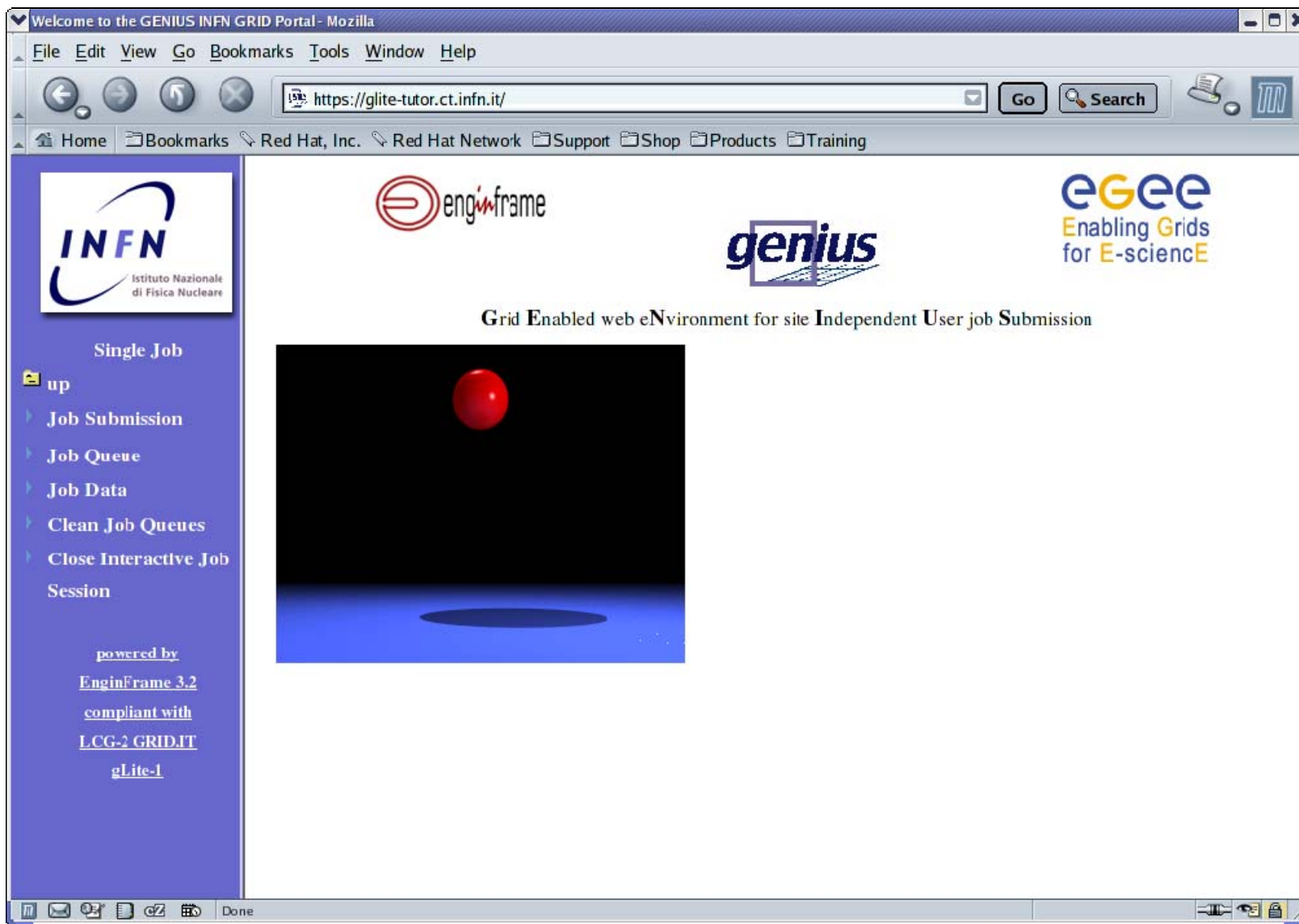
Grid Enabled web eNvironment for site Independent User job Submission

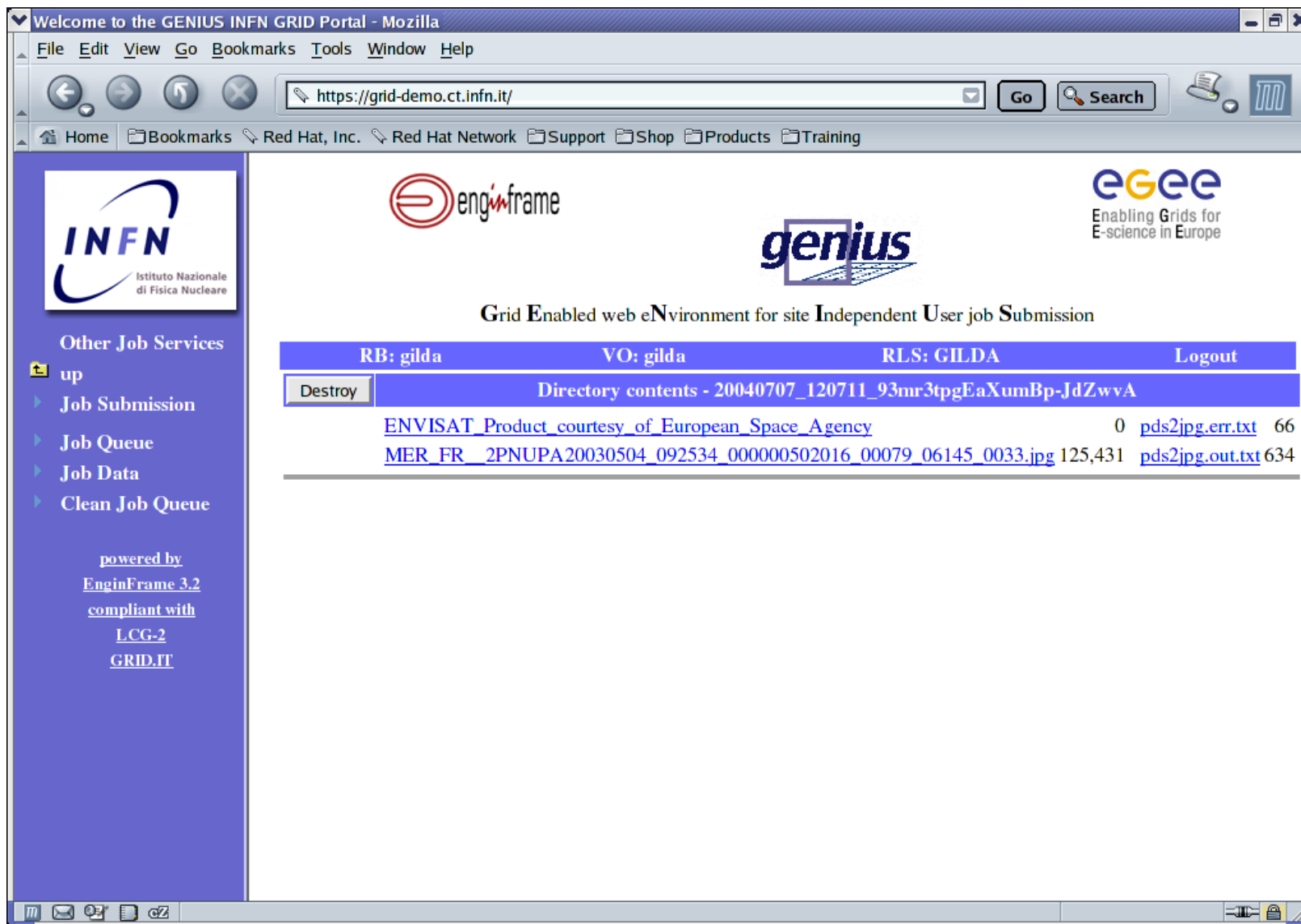
VO: gilda
Catalog: GILDA
Your Data
Logout

Job Queue

JDL Name	Last Update	Destination	Status	Exit Code	Action
pP6dJxb0w /home/falzone/gLite/Other/ball.jdl	Jun 13 01:39:05 2005 CEST	grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-short	Done	0	Get Output

https://glite-tutor.ct.infn.it/infno.grid.xml?_uri=/com.enginframe...&dg_jobid=https://glite-rb.ct.infn.it:9000/YVCRQAPDj66S6pP6dJxb0w





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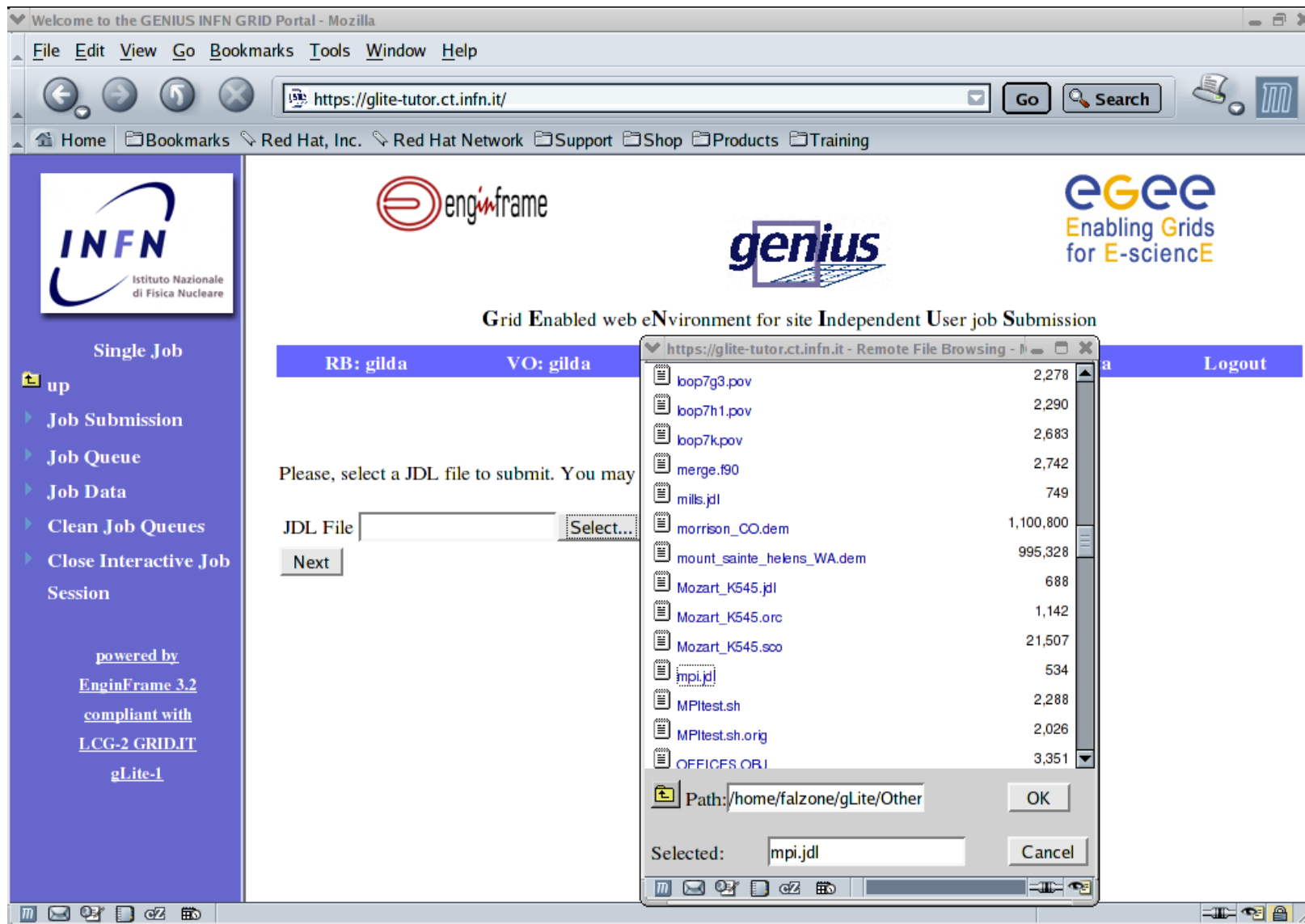
Grid Enabled web eNvironment for site Independent User job Submission

RB: gilda	VO: gilda	RLS: GILDA	Logout
<input type="button" value="Destroy"/>	Directory contents - 20040707_120711_93mr3tpgEaXumBp-JdZwvA		
ENVISAT_Product_courtesy_of_European_Space_Agency	0	pds2jpg.err.txt	66
MER_FR_2PNUPA20030504_092534_000000502016_00079_06145_0033.jpg	125,431	pds2jpg.out.txt	634

Other Job Services

- up
- Job Submission
- Job Queue
- Job Data
- Clean Job Queue

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RB: gilda VO: gilda

Please, select a JDL file to submit. You may

JDL File

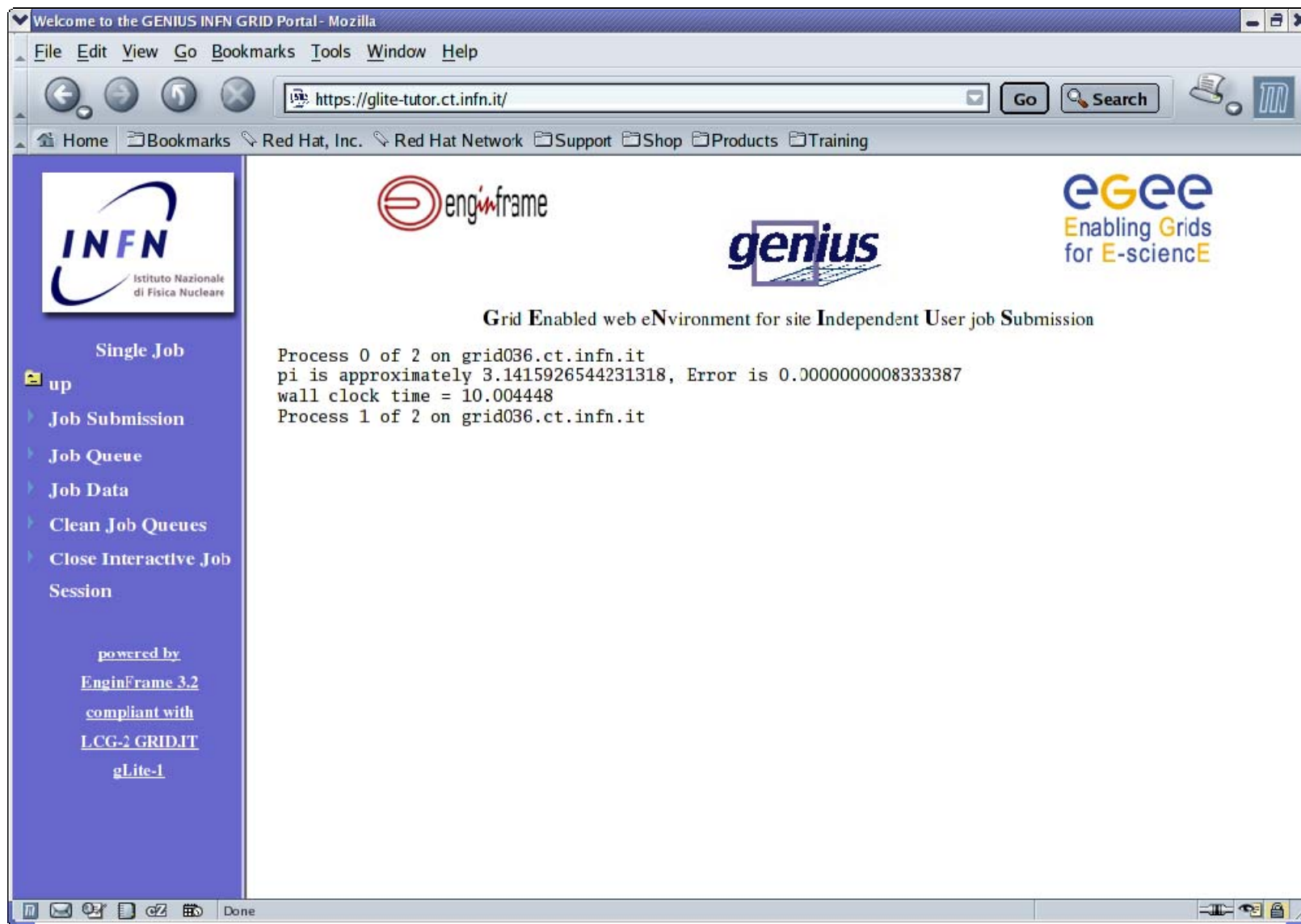
Logout

https://glite-tutor.ct.infn.it - Remote File Browsing

loop7g3.pov	2,278
loop7h1.pov	2,290
loop7k.pov	2,683
merge.f90	2,742
mills.jdl	749
morrison_CO.dem	1,100,800
mount_sainte_helens_WA.dem	995,328
Mozart_K545.jdl	688
Mozart_K545.orc	1,142
Mozart_K545.sco	21,507
mpi.jdl	534
MPItest.sh	2,288
MPItest.sh.orig	2,026
OFFICES.ORG	3,351

Path: /home/falzone/gLite/Other

Selected: mpi.jdl







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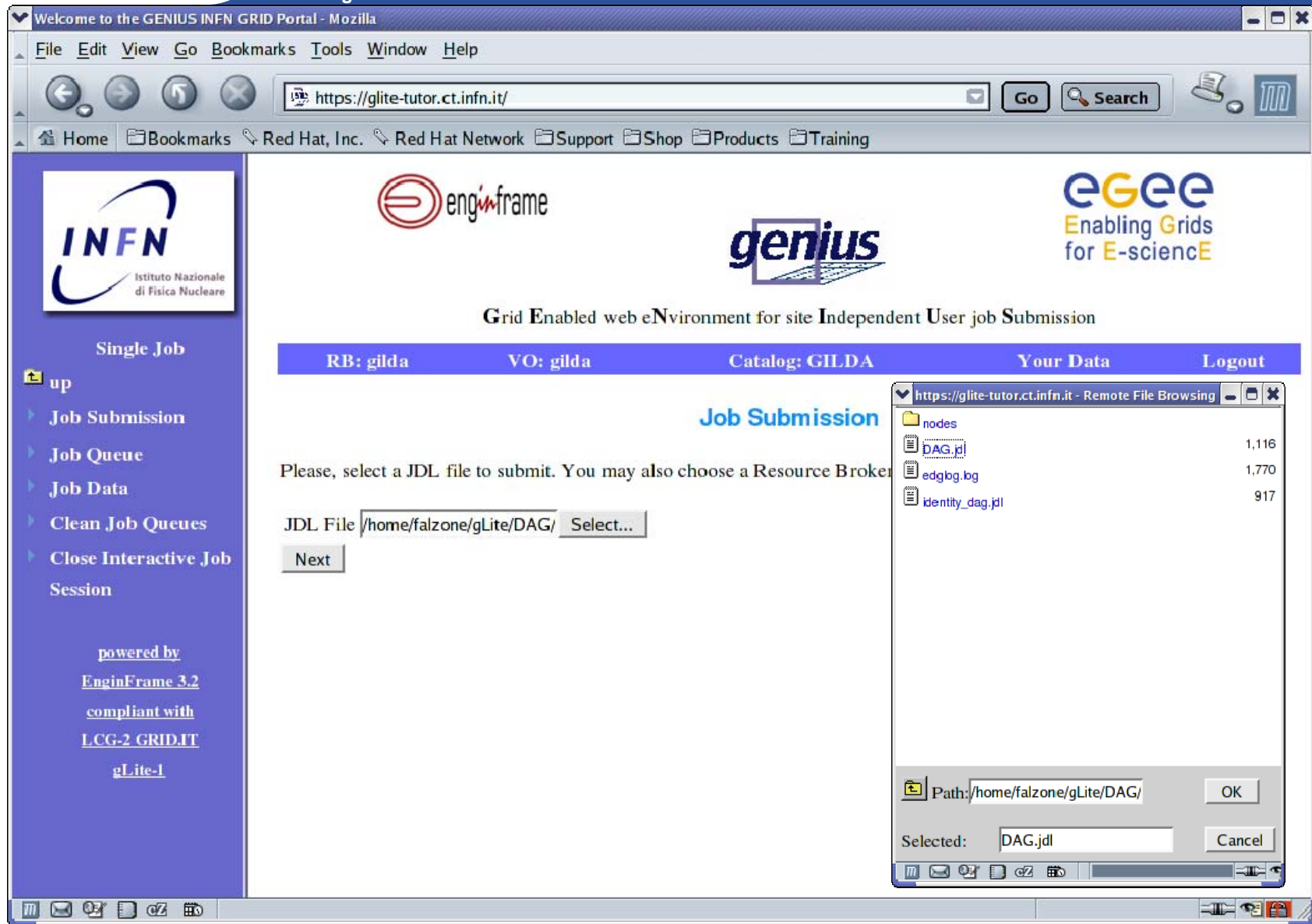
Grid Enabled web eNvironment for site Independent User job Submission

Process 0 of 2 on grid036.ct.infn.it
 pi is approximately 3.1415926544231318, Error is 0.0000000008333387
 wall clock time = 10.004448
 Process 1 of 2 on grid036.ct.infn.it

Single Job

- up
- Job Submission
- Job Queue
- Job Data
- Clean Job Queues
- Close Interactive Job Session

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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

Job Submission

Please, select a JDL file to submit. You may also choose a Resource Broker

JDL File

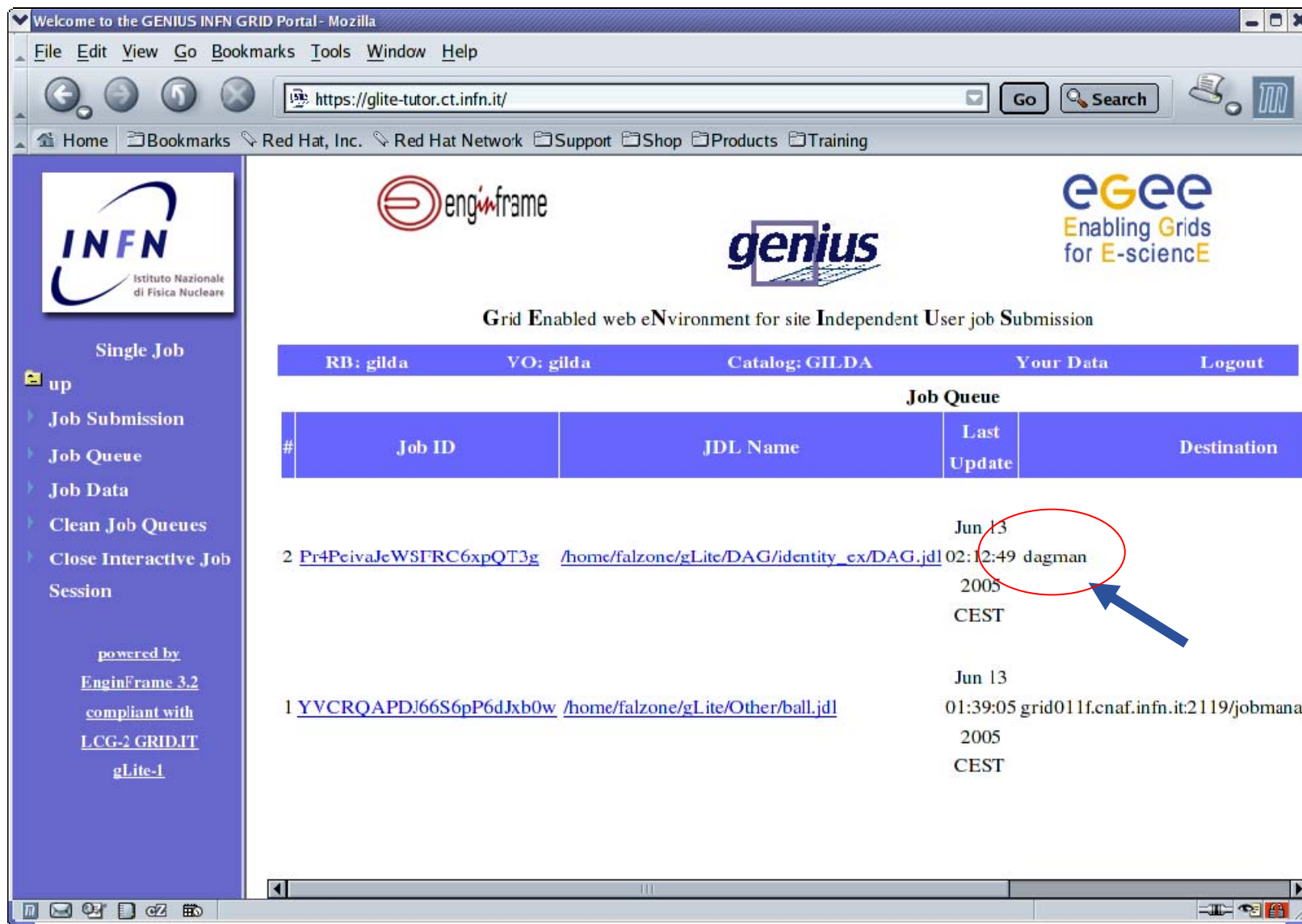
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https://glite-tutor.ct.infn.it - Remote File Browsing

nodes	
DAG.jdl	1,116
edglog.bg	1,770
identity_dag.jdl	917

Path: /home/falzone/gLite/DAG/

Selected: DAG.jdl







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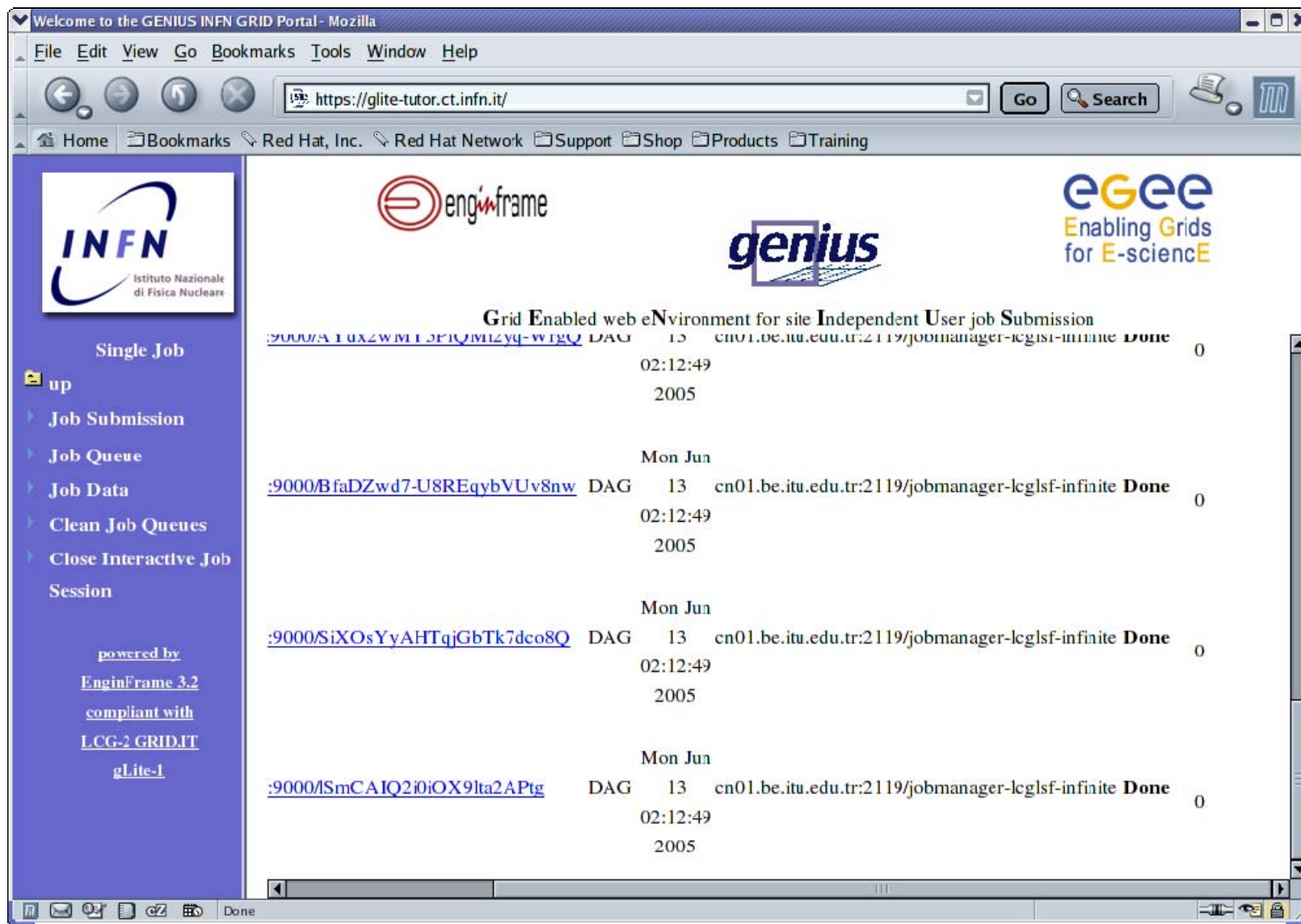
Grid Enabled web eNvironment for site Independent User job Submission

RB: gilda VO: gilda Catalog: GILDA Your Data Logout

Job Queue

#	Job ID	JDL Name	Last Update	Destination
2	Pr4PeivaJeWSIFRC6xpQT3g	/home/falzone/gLite/DAG/identity_ex/DAG.jdl	Jun 13 2005 02:12:49	dagman CEST
1	YVCRQAPDj66S6pP6dJxb0w	/home/falzone/gLite/Other/ball.jdl	Jun 13 2005 01:39:05	grid011f.cnaf.infn.it:2119/jobmanag CEST

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Single Job

- up
- Job Submission
- Job Queue
- Job Data
- Clean Job Queues
- Close Interactive Job Session

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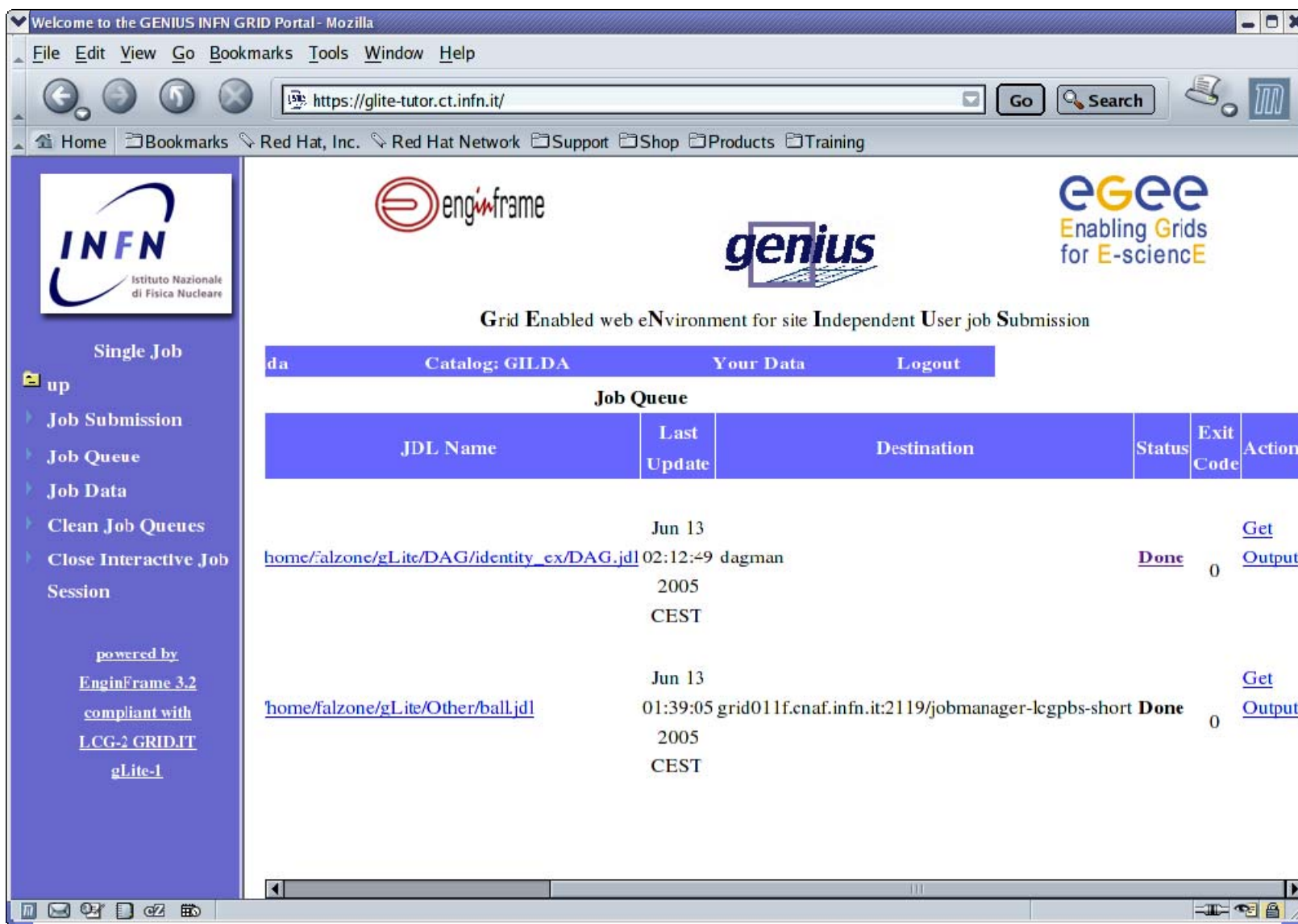
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Grid Enabled web eNvironment for site Independent User job Submission

Job ID	Type	Nodes	Host	Status	Progress
:9000/A1UXZWMLE3FIQMI2Yq-Wf2Q	DAG	13	cn01.be.itu.edu.tr:2119/jobmanager-lcgisf-infinite	Done	0
			02:12:49		
			2005		
			Mon Jun		
:9000/BfaDZwd7-U8REqybVUv8nw	DAG	13	cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-infinite	Done	0
			02:12:49		
			2005		
			Mon Jun		
:9000/SiXOsYyAHTqjGbTk7dco8Q	DAG	13	cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-infinite	Done	0
			02:12:49		
			2005		
			Mon Jun		
:9000/ISmCAIQ2i0iOX9lta2APtg	DAG	13	cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-infinite	Done	0
			02:12:49		
			2005		







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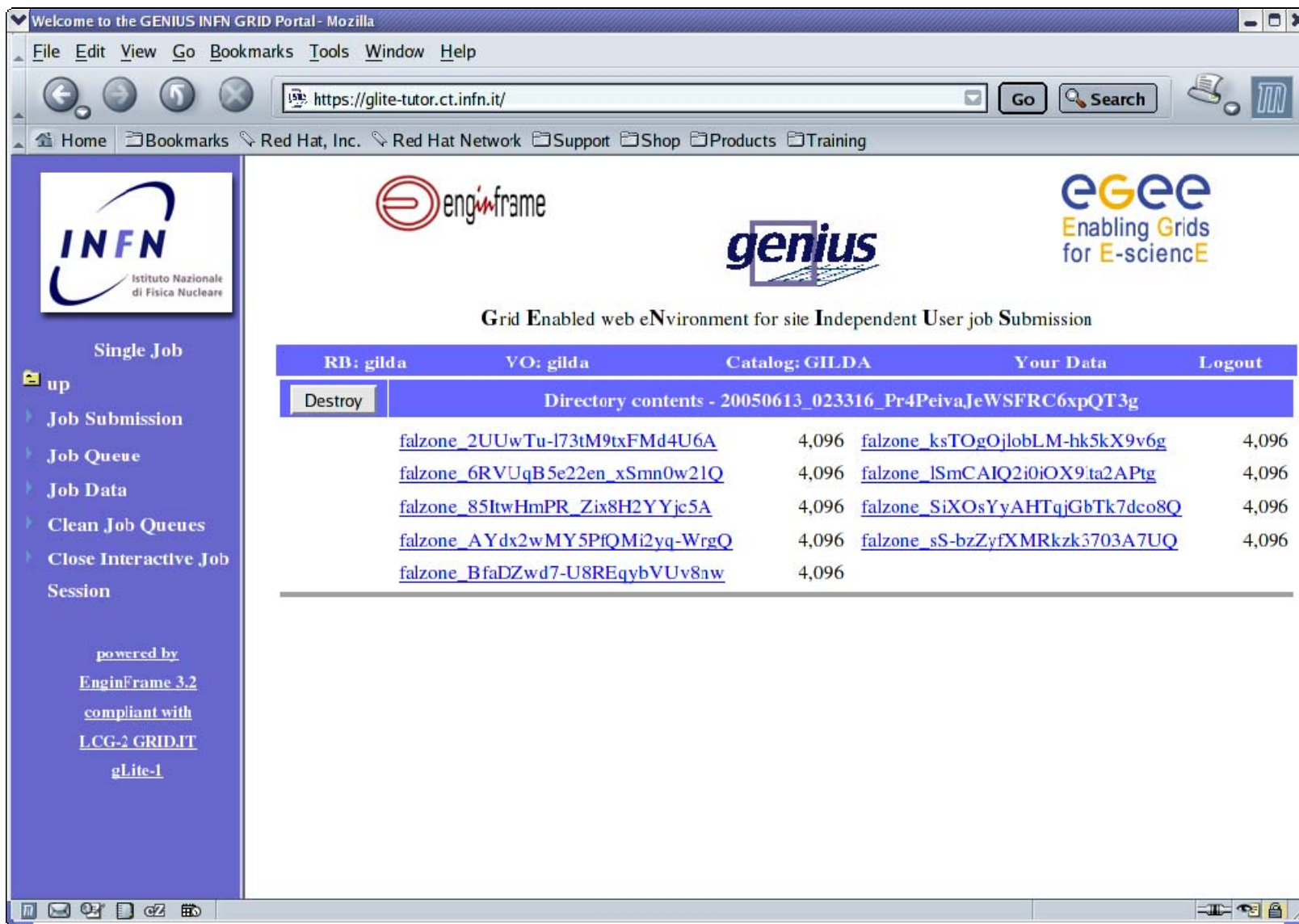
Grid Enabled web eNvironment for site Independent User job Submission

[da](#)
[Catalog: GILDA](#)
[Your Data](#)
[Logout](#)

Job Queue

JDL Name	Last Update	Destination	Status	Exit Code	Action
home/falzone/gLite/DAG/identity_ex/DAG.jdl	Jun 13 02:12:-9	dagman	Done	0	Get Output
home/falzone/gLite/Other/ball.jdl	Jun 13 01:39:05	grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-short	Done	0	Get Output
	2005	CEST			
	2005	CEST			

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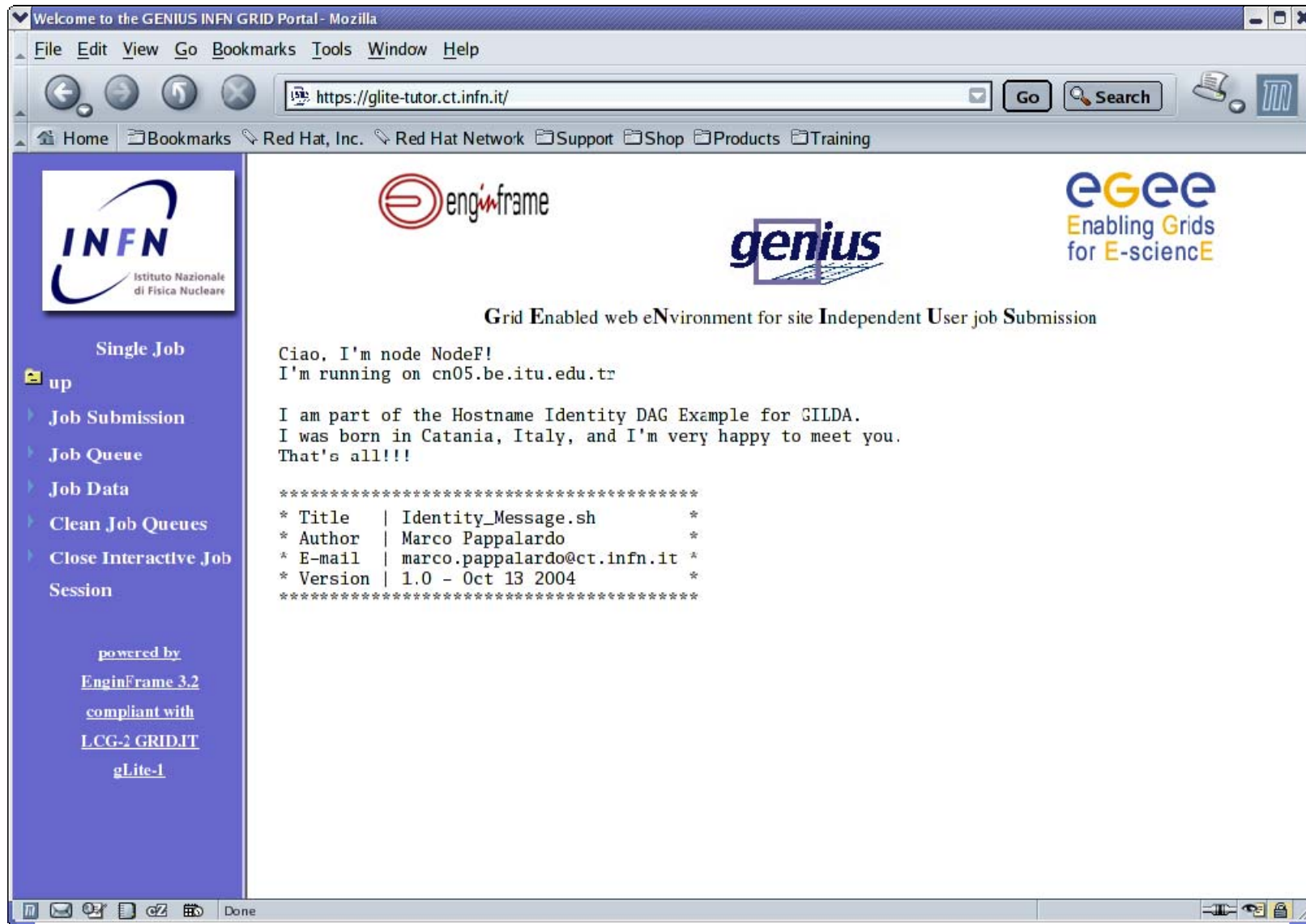
Grid Enabled web eNvironment for site Independent User job Submission

RB: gilda VO: gilda Catalog: GILDA Your Data Logout

Destroy Directory contents - 20050613_023316_Pr4PeivaJeWSFRC6xpQT3g

falzone_2UUwTu-l73tM9txFMd4U6A	4,096	falzone_ksTOgOjlobLM-hk5kX9v6g	4,096
falzone_6RVUqB5e22en_xSrn0w21Q	4,096	falzone_lSmCAIQ2i0iOX9'ta2APtg	4,096
falzone_85ItwHmPR_Zix8H2YYjc5A	4,096	falzone_SiXOsYyAHTqjGbTk7dco8Q	4,096
falzone_AYdx2wMY5PfQMi2yq-WrgQ	4,096	falzone_sS-bzZyfXMRkzk3703A7UQ	4,096
falzone_BfaDZwd7-U8REqybVUv8aw	4,096		

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Ciao, I'm node NodeF!
I'm running on cn05.be.itu.edu.tr

I am part of the Hostname Identity DAG Example for GILDA.
I was born in Catania, Italy, and I'm very happy to meet you.
That's all!!!

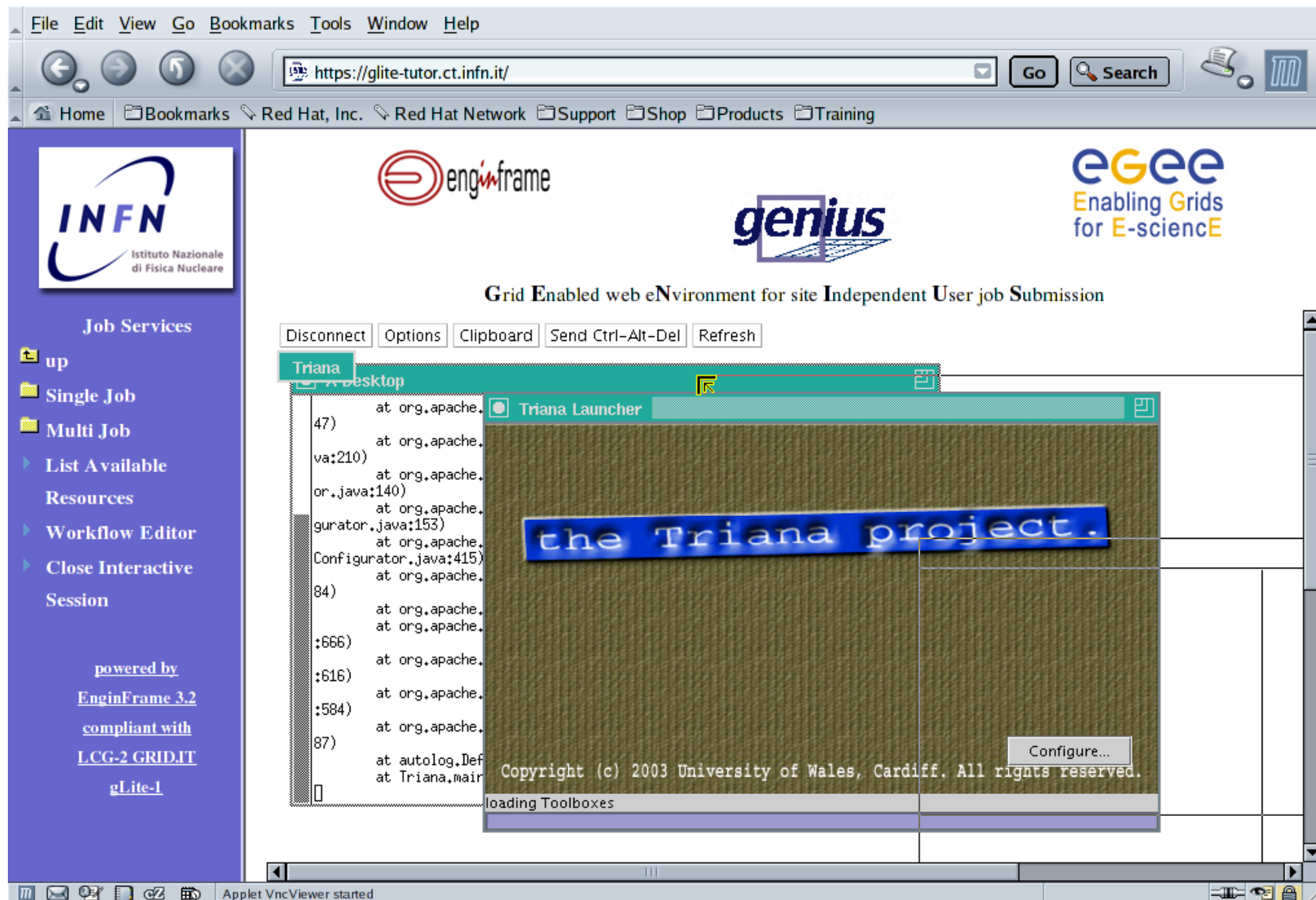
```

*****
* Title   | Identity_Message.sh      *
* Author  | Marco Pappalardo         *
* E-mail  | marco.pappalardo@ct.infn.it *
* Version | 1.0 - Oct 13 2004        *
*****

```

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Done



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Disconnect Options Clipboard Send Ctrl-Alt-Del Refresh

Triana Launcher

```

47) at org.apache.
va:210) at org.apache.
or.java:140) at org.apache.
gurator.java:153) at org.apache.
Configurator.java:415) at org.apache.
84) at org.apache.
at org.apache.
:666) at org.apache.
:616) at org.apache.
:584) at org.apache.
87) at autolog.Def
at Triana.mair

```

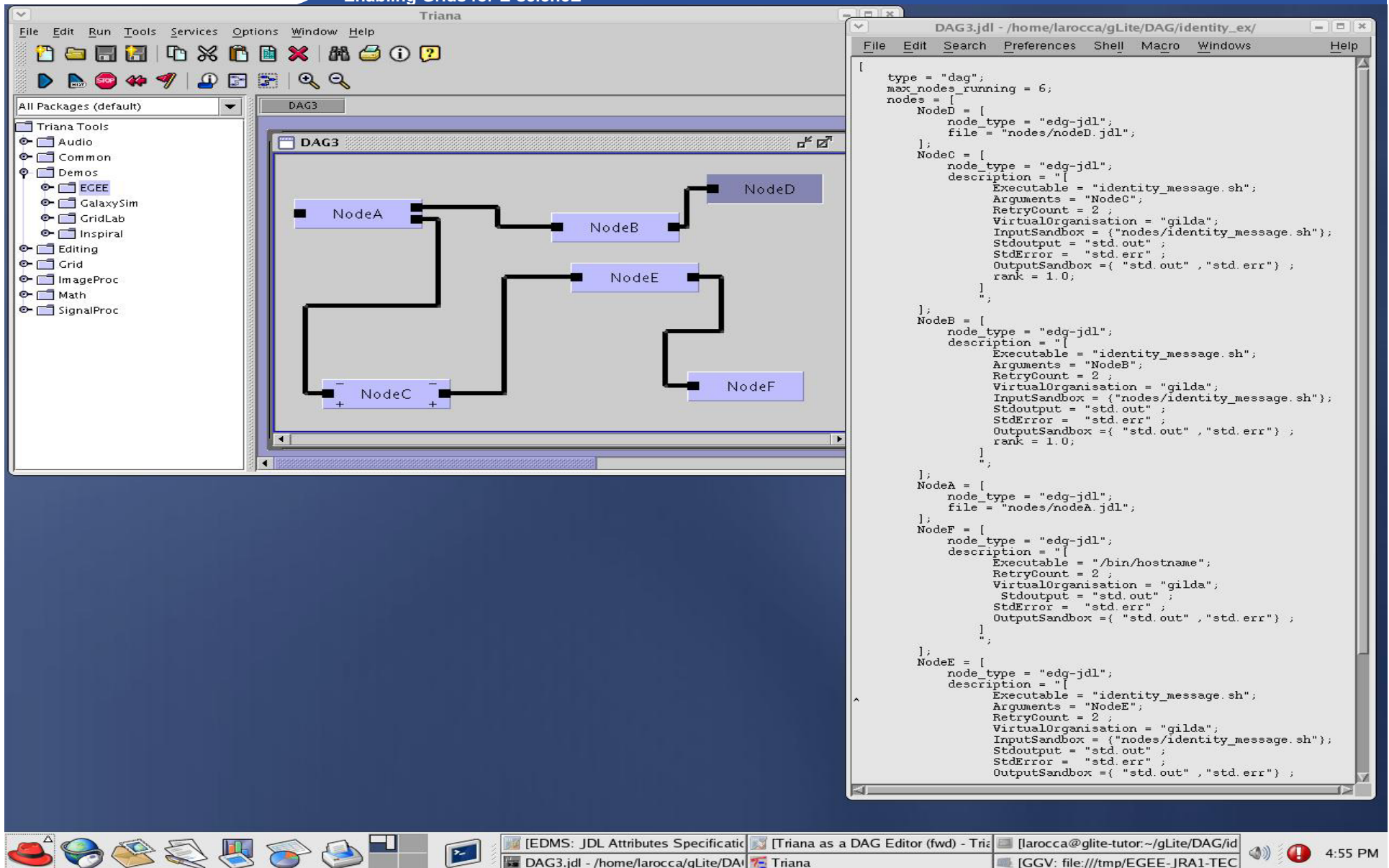
the Triana project.

Configure...

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loading Toolboxes

Applet VncViewer started

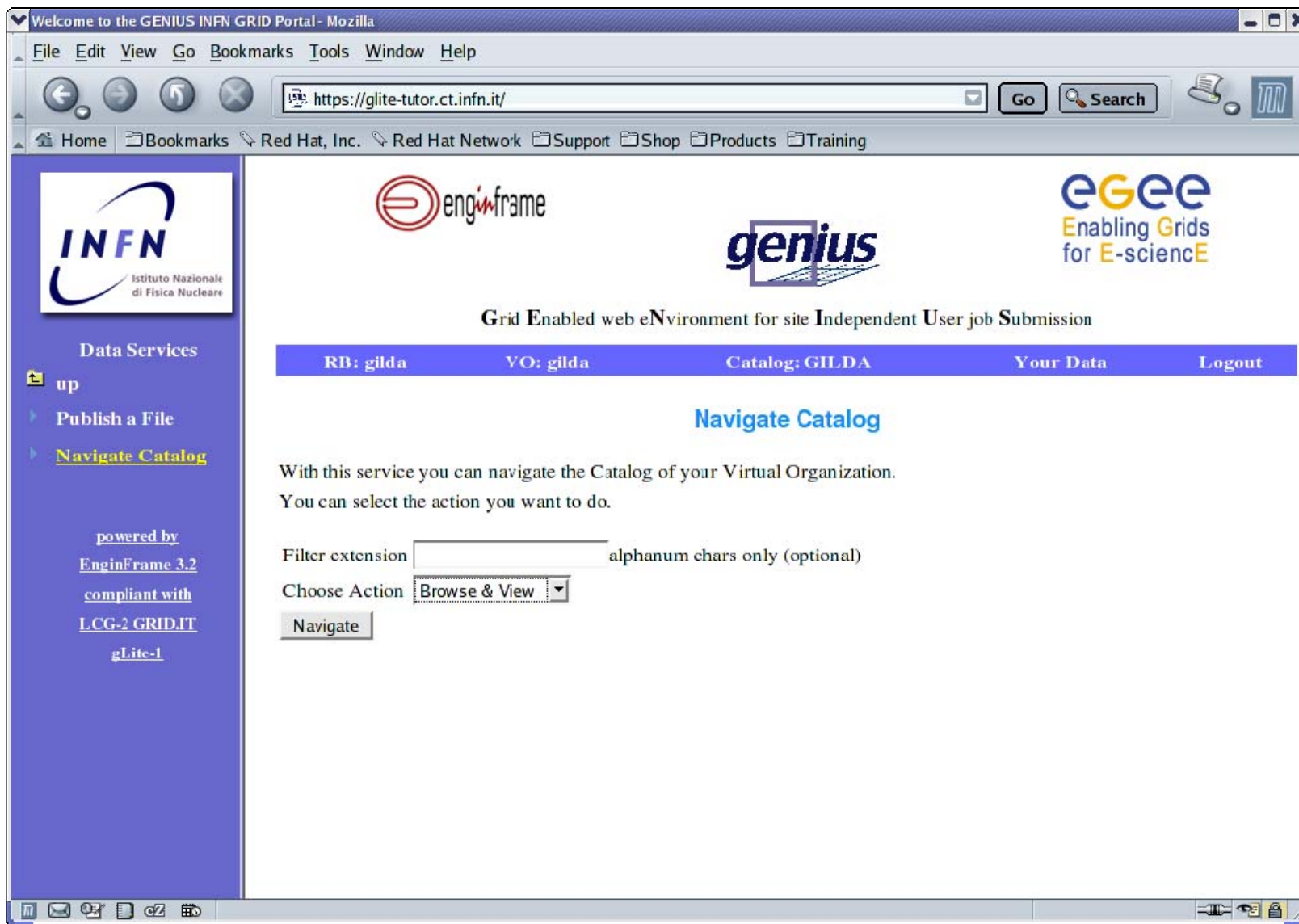


The image shows the TRIANA DAG editor interface. On the left, a package browser lists various toolkits like Audio, Common, Demos, EGEE, GalaxySim, GridLab, Inspiral, Editing, Grid, ImageProc, Math, and SignalProc. The main workspace displays a Directed Acyclic Graph (DAG) with six nodes: NodeA, NodeB, NodeC, NodeD, NodeE, and NodeF. NodeA is the root, branching into NodeB and NodeC. NodeB branches into NodeD and NodeE. NodeC branches into NodeE and NodeF. NodeE branches into NodeD and NodeF. On the right, a text editor window shows the JDL code for DAG3.jdl, defining the DAG structure and node attributes.

```

type = "dag";
max_nodes_running = 6;
nodes = [
  NodeD = [
    node_type = "edg-jdl";
    file = "nodes/nodeD.jdl";
  ];
  NodeC = [
    node_type = "edg-jdl";
    description = "{
      Executable = "identity_message.sh";
      Arguments = "NodeC";
      RetryCount = 2 ;
      VirtualOrganisation = "gilda";
      InputSandbox = {"nodes/identity_message.sh"};
      Stdoutput = "std.out" ;
      StdError = "std.err" ;
      OutputSandbox ={ "std.out" , "std.err" } ;
      rank = 1.0;
    }";
  ];
  NodeB = [
    node_type = "edg-jdl";
    description = "{
      Executable = "identity_message.sh";
      Arguments = "NodeB";
      RetryCount = 2 ;
      VirtualOrganisation = "gilda";
      InputSandbox = {"nodes/identity_message.sh"};
      Stdoutput = "std.out" ;
      StdError = "std.err" ;
      OutputSandbox ={ "std.out" , "std.err" } ;
      rank = 1.0;
    }";
  ];
  NodeA = [
    node_type = "edg-jdl";
    file = "nodes/nodeA.jdl";
  ];
  NodeF = [
    node_type = "edg-jdl";
    description = "{
      Executable = "/bin/hostname";
      RetryCount = 2 ;
      VirtualOrganisation = "gilda";
      Stdoutput = "std.out" ;
      StdError = "std.err" ;
      OutputSandbox ={ "std.out" , "std.err" } ;
    }";
  ];
  NodeE = [
    node_type = "edg-jdl";
    description = "{
      Executable = "identity_message.sh";
      Arguments = "NodeE";
      RetryCount = 2 ;
      VirtualOrganisation = "gilda";
      InputSandbox = {"nodes/identity_message.sh"};
      Stdoutput = "std.out" ;
      StdError = "std.err" ;
      OutputSandbox ={ "std.out" , "std.err" } ;
    }";
  ];
];

```



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Navigate Catalog

With this service you can navigate the Catalog of your Virtual Organization.
You can select the action you want to do.

Filter extension alphanum chars only (optional)

Choose Action **Browse & View**

Navigate

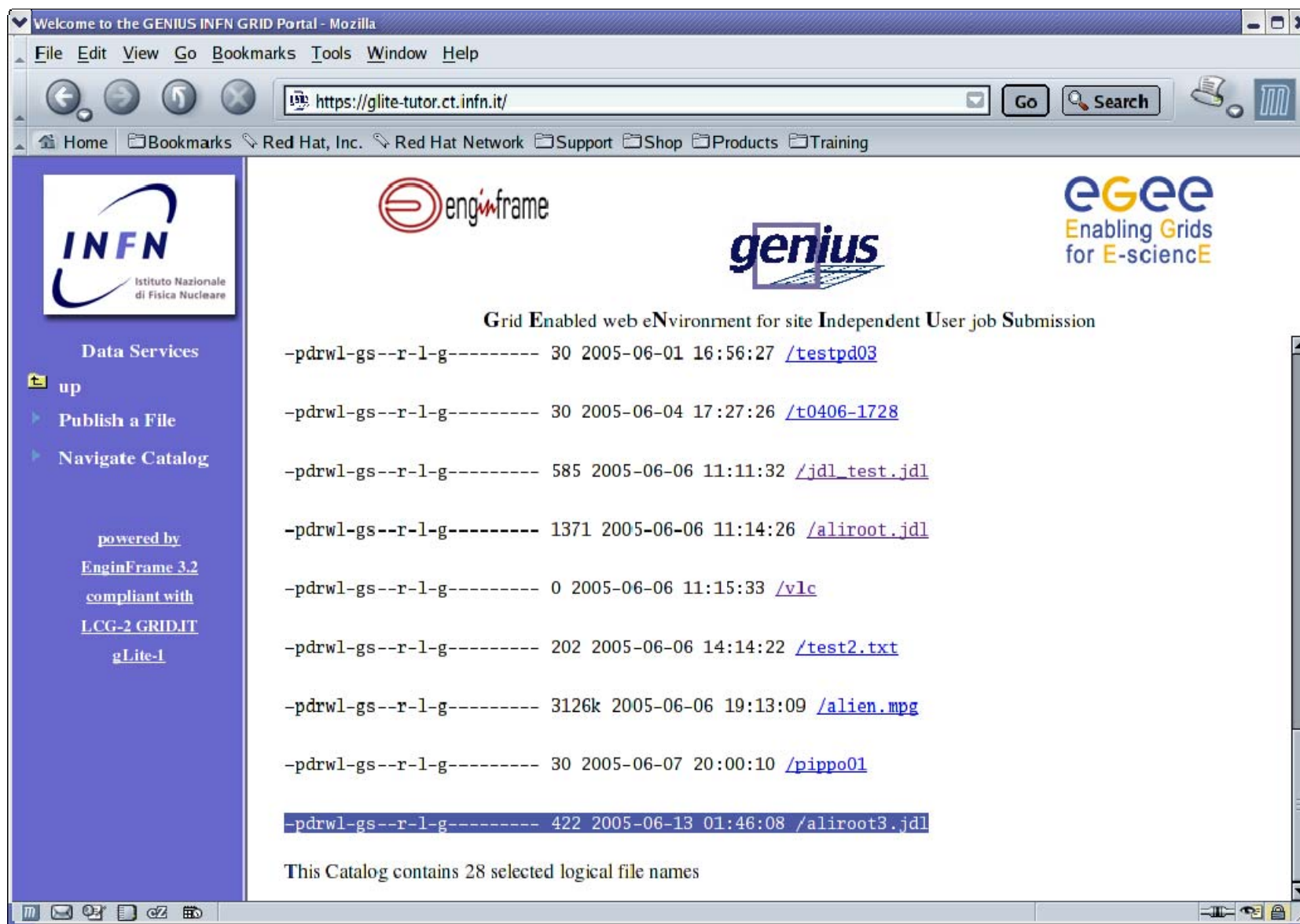
Data Services

up

Publish a File

[Navigate Catalog](#)

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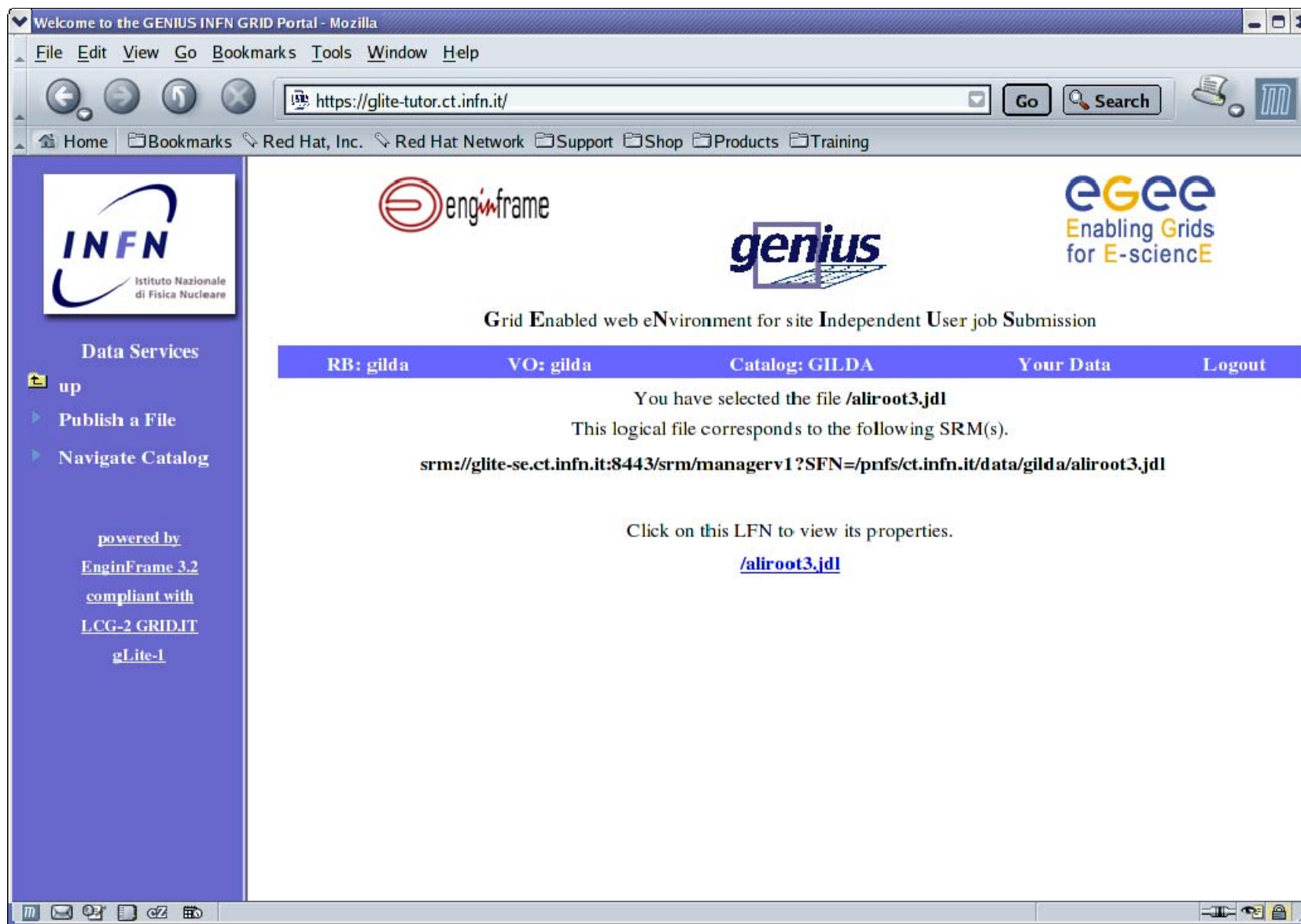
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-pdrwl-gs--r-l-g-----	30	2005-06-01	16:56:27	/testpd03
-pdrwl-gs--r-l-g-----	30	2005-06-04	17:27:26	/t0406-1728
-pdrwl-gs--r-l-g-----	585	2005-06-06	11:11:32	/jdl_test.jdl
-pdrwl-gs--r-l-g-----	1371	2005-06-06	11:14:26	/aliroot.jdl
-pdrwl-gs--r-l-g-----	0	2005-06-06	11:15:33	/vlc
-pdrwl-gs--r-l-g-----	202	2005-06-06	14:14:22	/test2.txt
-pdrwl-gs--r-l-g-----	3126k	2005-06-06	19:13:09	/alien.mpg
-pdrwl-gs--r-l-g-----	30	2005-06-07	20:00:10	/pippo01
-pdrwl-gs--r-l-g-----	422	2005-06-13	01:46:08	/aliroot3.jdl

This Catalog contains 28 selected logical file names

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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

You have selected the file **/alroot3.jdl**

This logical file corresponds to the following SRM(s).

srm://glite-se.ct.infn.it:8443/srm/managerv1?SFN=/pnfs/ct.infn.it/data/gilda/alroot3.jdl

Click on this LFN to view its properties.

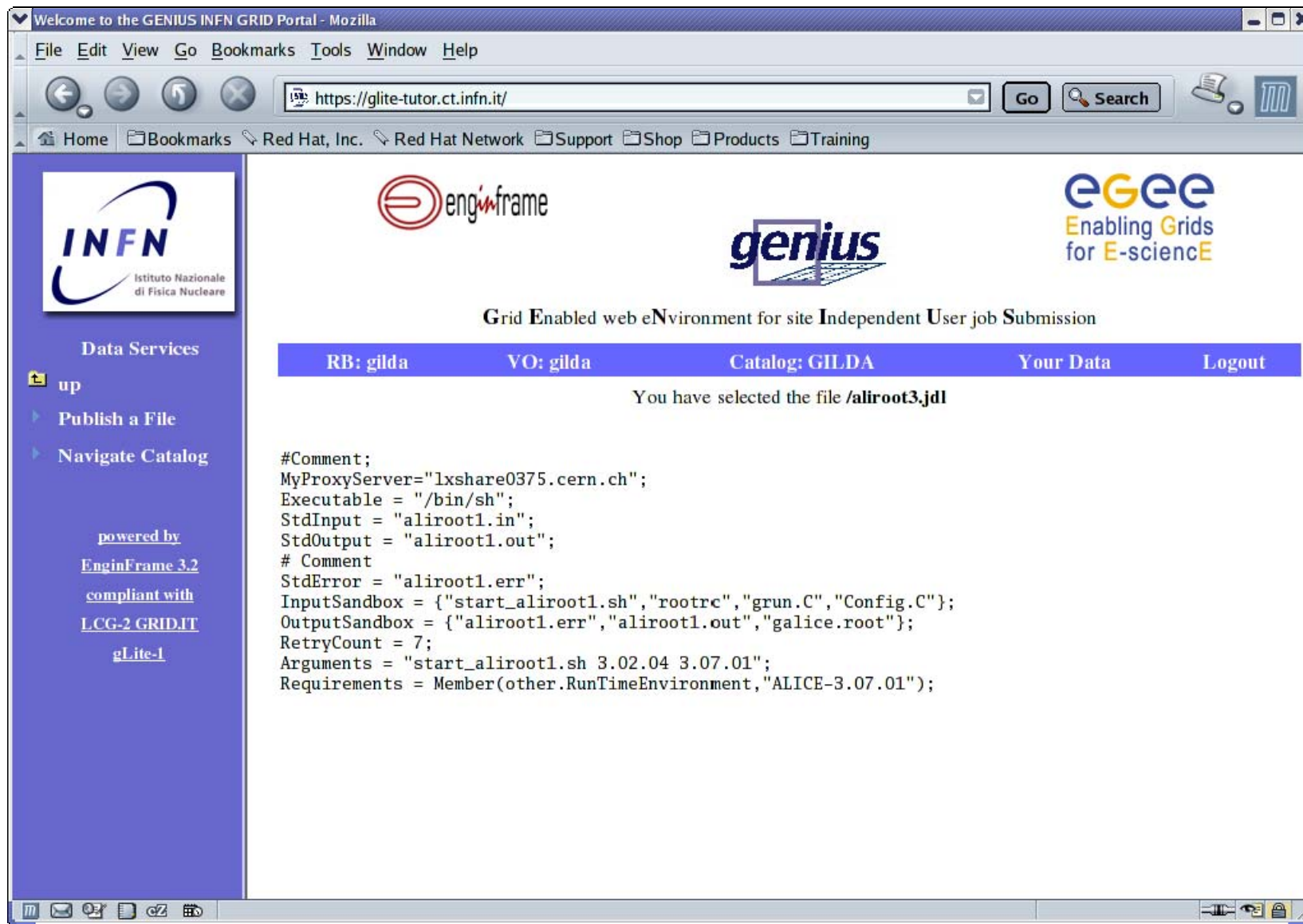
[/alroot3.jdl](#)

Data Services

up

- Publish a File
- Navigate Catalog

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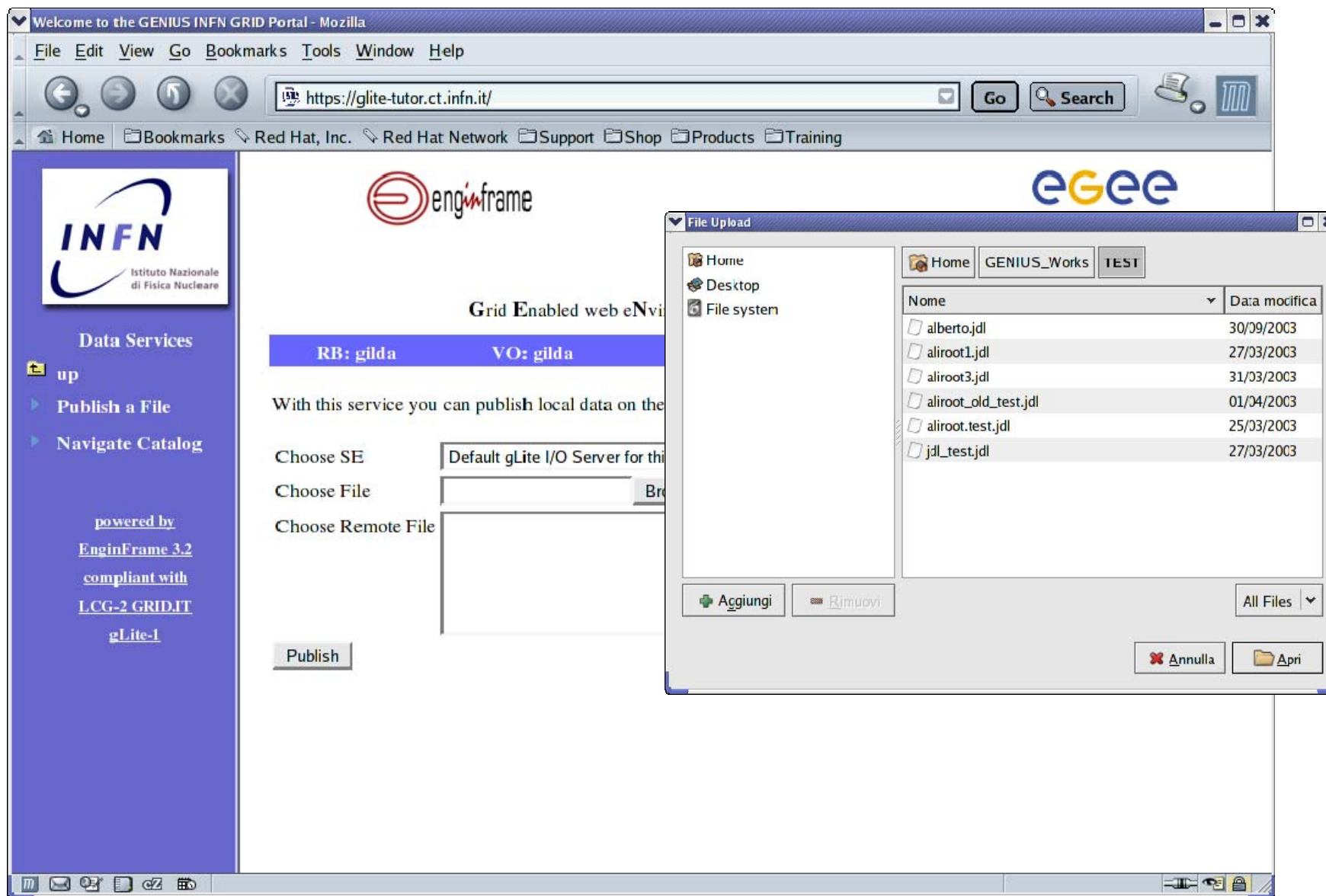
Grid Enabled web eNvironment for site Independent User job Submission

RB: gilda VO: gilda Catalog: GILDA Your Data Logout

You have selected the file **/aliroot3.jdl**

```
#Comment;
MyProxyServer="lxshare0375.cern.ch";
Executable = "/bin/sh";
StdInput = "aliroot1.in";
StdOutput = "aliroot1.out";
# Comment
StdError = "aliroot1.err";
InputSandbox = {"start_aliroot1.sh","rootc","grun.C","Config.C"};
OutputSandbox = {"aliroot1.err","aliroot1.out","galice.root"};
RetryCount = 7;
Arguments = "start_aliroot1.sh 3.02.04 3.07.01";
Requirements = Member(other.RunTimeEnvironment,"ALICE-3.07.01");
```

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RB: gilda VO: gilda

With this service you can publish local data on the

Choose SE: Default gLite I/O Server for thi

Choose File: [] Br

Choose Remote File: []

Publish

File Upload

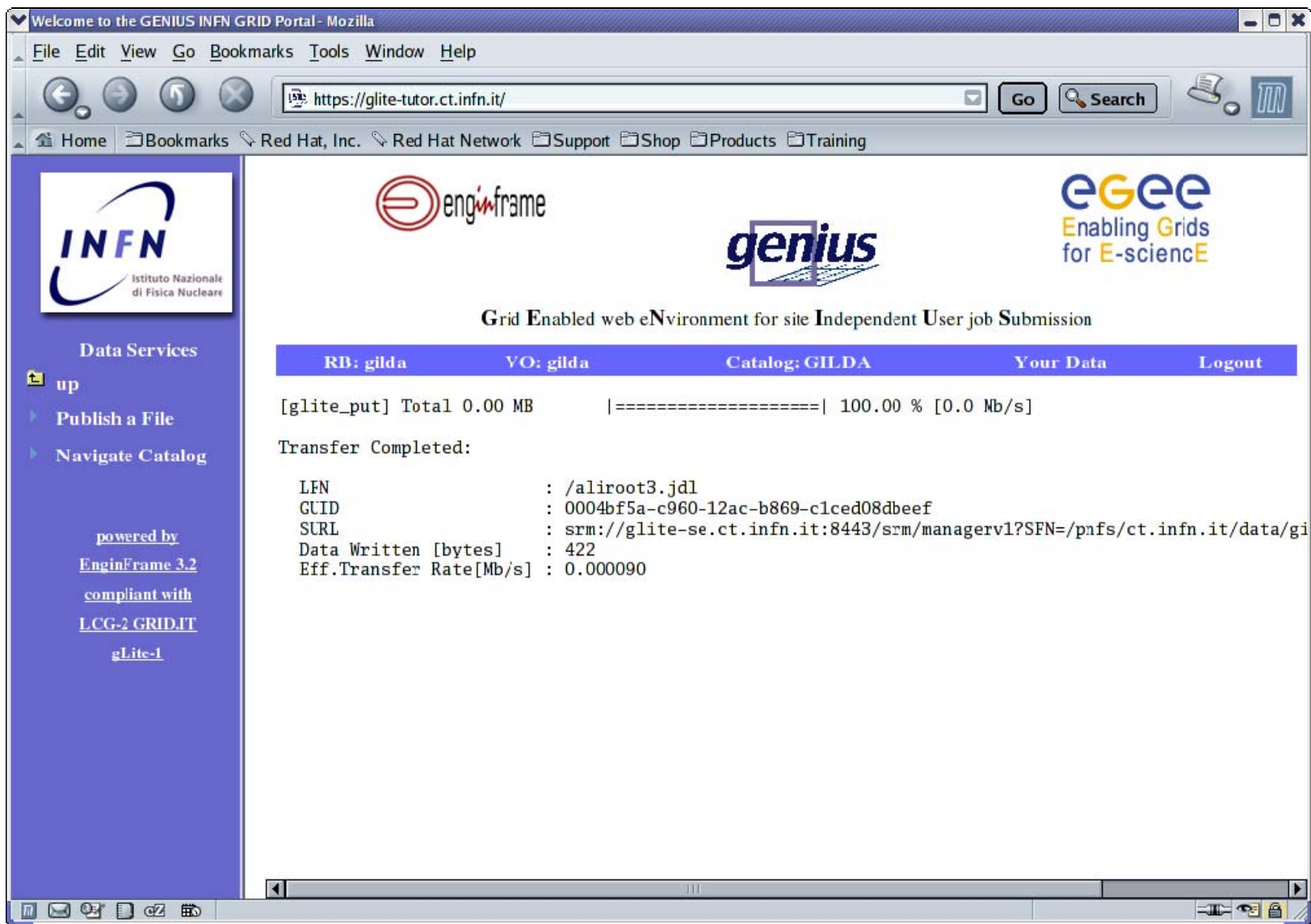
Home GENIUS_Works TEST

Nome	Data modifica
alberto.jdl	30/09/2003
aliroot1.jdl	27/03/2003
aliroot3.jdl	31/03/2003
aliroot_old_test.jdl	01/04/2003
aliroot.test.jdl	25/03/2003
jdl_test.jdl	27/03/2003

Ac aggiungi Rimuovi

All Files

Annulla Apri



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[glite_put] Total 0.00 MB |=====| 100.00 % [0.0 Mb/s]

Transfer Completed:

LFN : /aliroot3.jdl
 GUID : 0004bf5a-c960-12ac-b869-c1ced08dbeef
 SURL : srm://glite-se.ct.infn.it:8443/srm/managerv1?SFN=/pnfs/ct.infn.it/data/gi
 Data Written [bytes] : 422
 Eff. Transfer Rate [Mb/s] : 0.000090

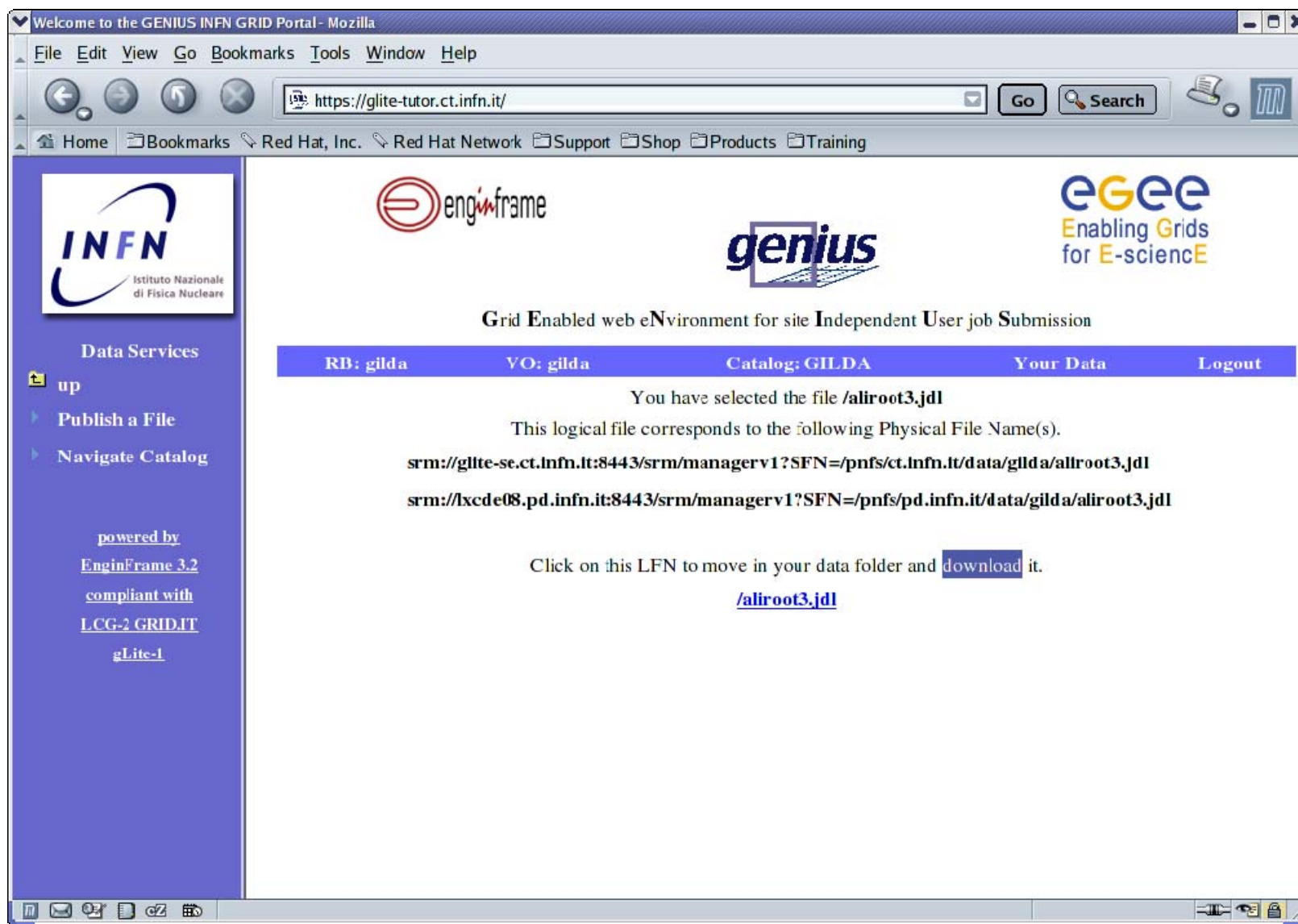
Data Services

up

Publish a File

Navigate Catalog

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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

You have selected the file **/alroot3.jdl**

This logical file corresponds to the following Physical File Name(s).

srm://glite-se.ct.infn.it:8443/srm/managerv1?SFN=/pnfs/ct.infn.it/data/gilda/allroot3.jdl

srm://lxcde08.pd.infn.it:8443/srm/managerv1?SFN=/pnfs/pd.infn.it/data/gilda/alroot3.jdl

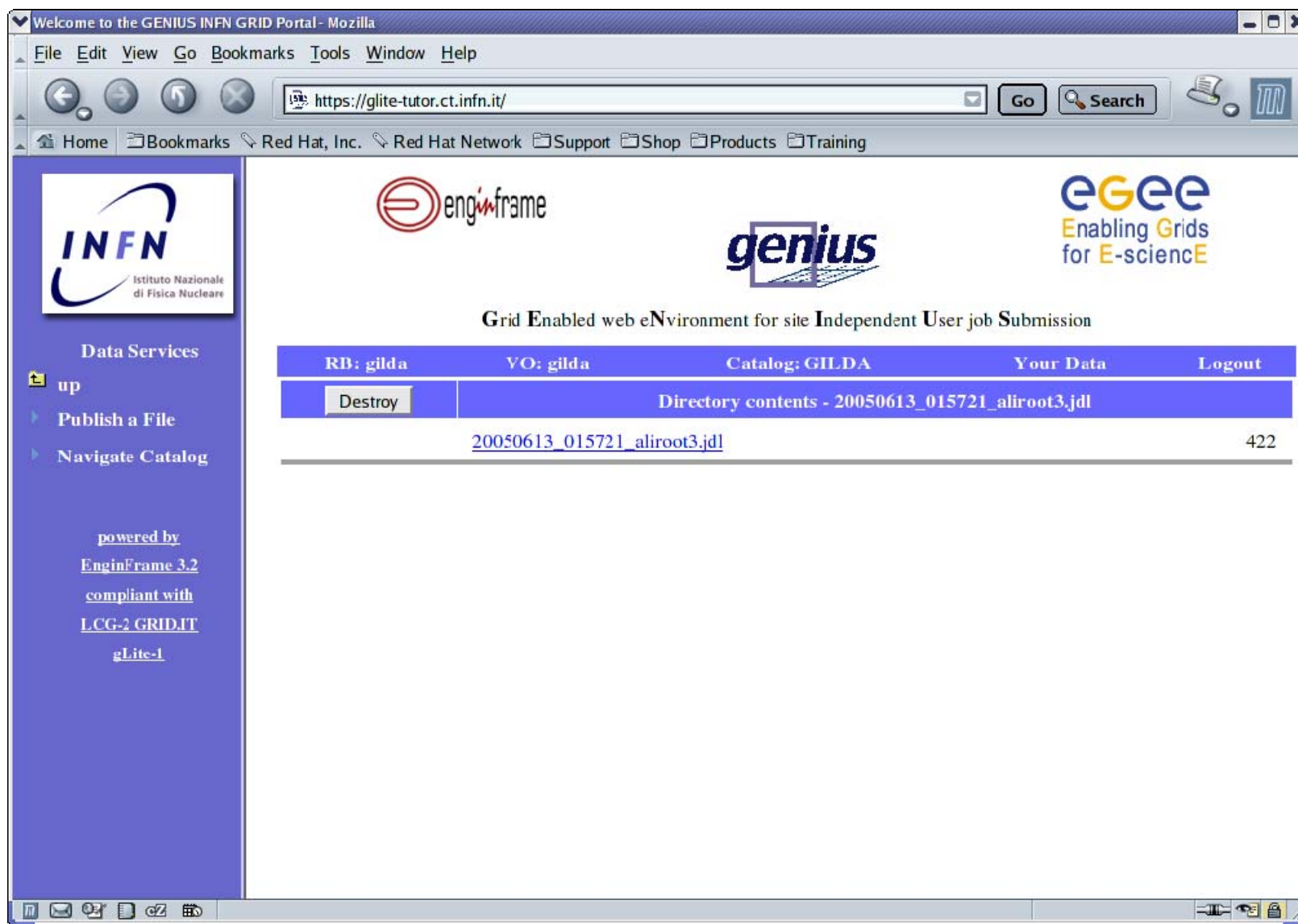
Click on this LFN to move in your data folder and **download** it.

[/alroot3.jdl](#)

Data Services

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RB: gilda	VO: gilda	Catalog: GILDA	Your Data	Logout
<input type="button" value="Destroy"/>	Directory contents - 20050613_015721_aliroot3.jdl			
	20050613_015721_aliroot3.jdl			422

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INFN - GridICE - Grid Monitoring Service - Mozilla

http://ed002.cnaf.infn.it:5000

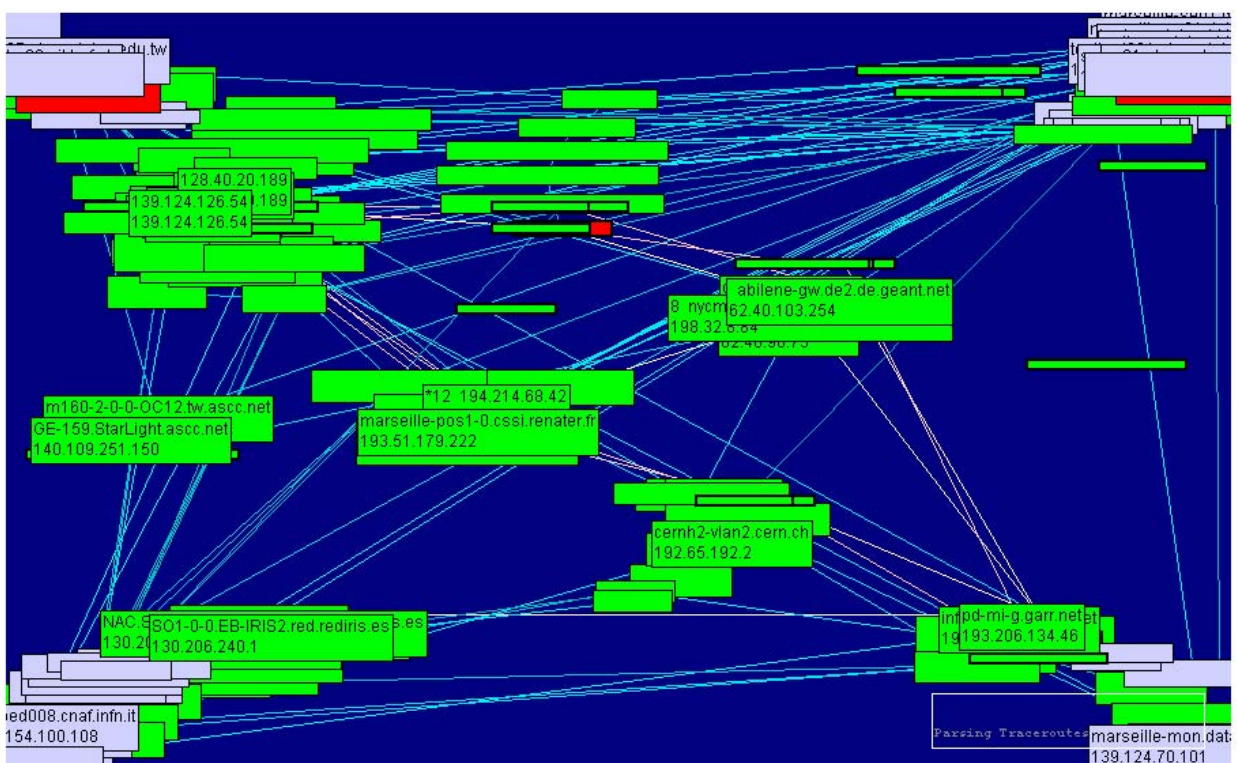
GridICE the eyes of the Grid

Site view VO view Geo view Grid

Select Site

Site	Slot#	SlotFree	SlotLoad
ba.infn.it	189	186	1%
bo.infn.it	30	30	0%
bo.ingv.it	24	24	0%
ca.infn.it	15	12	20%
cnaf.infn.it	-	-	-
cr.cnaf.infn.it	3162	2137	32%
ct.astro.it	0	0	-
ct.infn.it	336	300	10%
fe.infn.it	48	18	62%
le.infn.it	0	0	-
lnl.infn.it	144	115	20%
mi.infn.it	126	126	0%
na.infn.it	72	72	0%
oat.ts.astro.it	6	6	0%
pd.infn.it	198	198	0%
pg.infn.it	12	6	5%
pi.infn.it	21	15	28%
pv.infn.it	18	18	0%
roma1.infn.it	90	87	3%
to.infn.it	104	24	76%
ts.infn.it	6	6	0%
TOTAL	4601	3380	17%

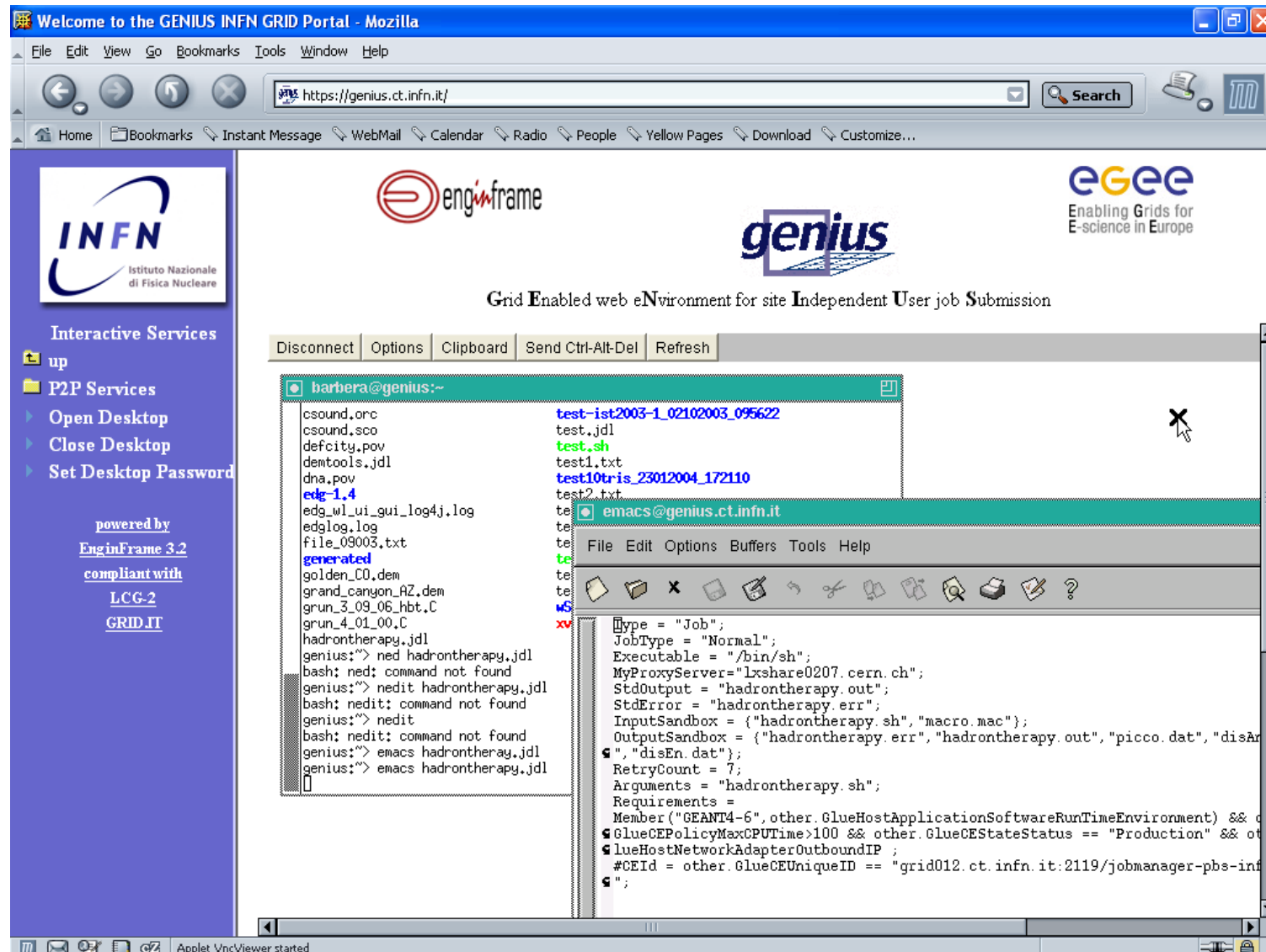
Network Topology (trace.txt.datagrid.pcp)



Abilities to monitor:

- Site view
- VO view
- Geo view
- Grid

Applet NetBird started



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Disconnect Options Clipboard Send Ctrl-Alt-Del Refresh

barbera@genius:~

```

csound.orc
csound.sco
defcity.pov
dentools.jdl
dna.pov
edg-1.4
edg_wl_ui_gui_log4j.log
edglog.log
file_09003.txt
generated
golden_CO.dem
grand_canyon_AZ.dem
grun_3_09_06_hbt.C
grun_4_01_00.C
hadrontherapy.jdl
genius:> ned hadrontherapy.jdl
bash: ned: command not found
genius:> nedit hadrontherapy.jdl
bash: nedit: command not found
genius:> nedit
bash: nedit: command not found
genius:> emacs hadrontherapy.jdl
genius:> emacs hadrontherapy.jdl

```

test-ist2003-1_02102003_095622

```

test.jdl
test.sh
test1.txt
test10tris_23012004_172110
test2.txt

```

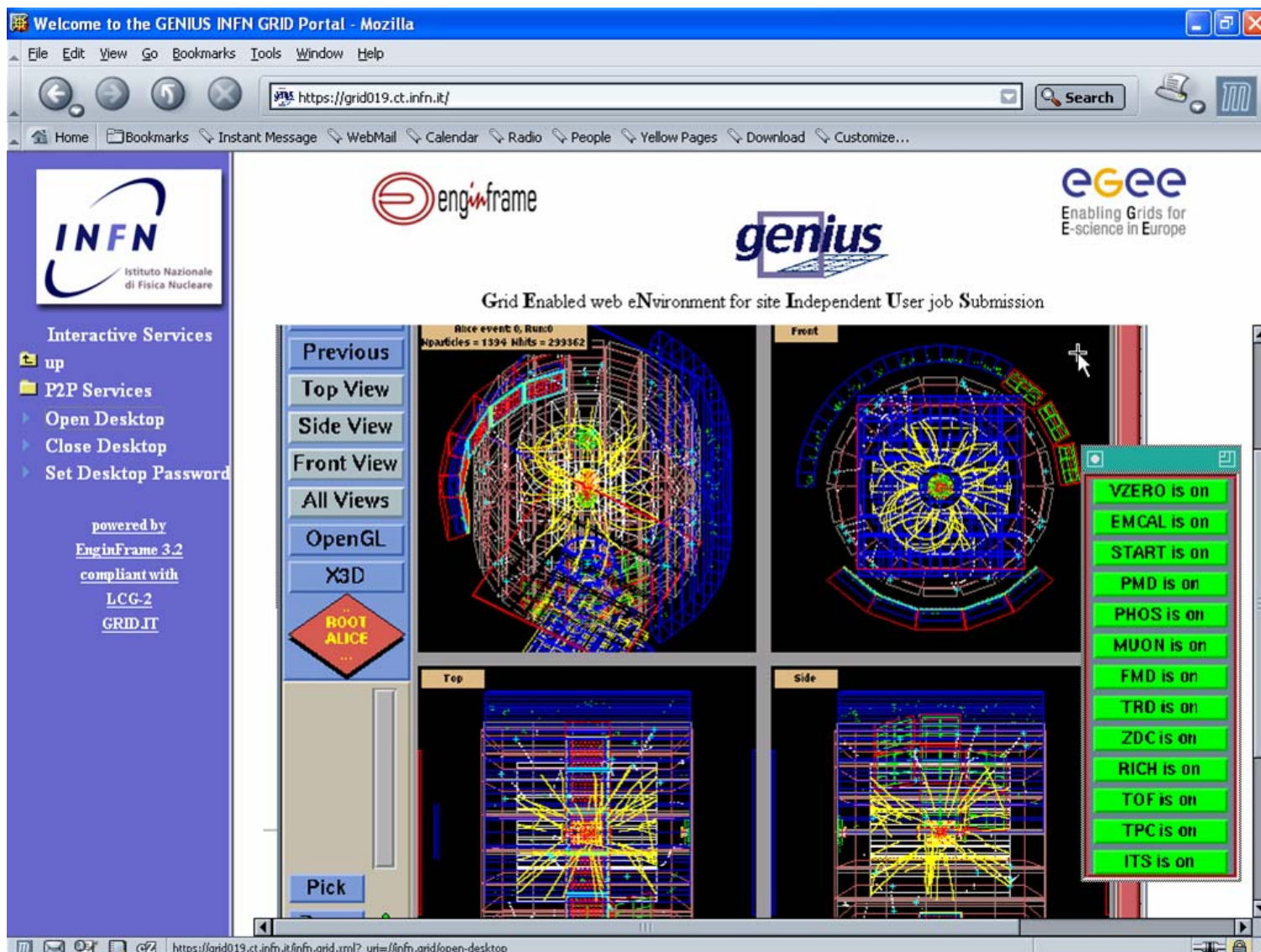
emacs@genius.ct.infn.it

```

File Edit Options Buffers Tools Help
type = "Job";
JobType = "Normal";
Executable = "/bin/sh";
MyProxyServer="lxshare0207.cern.ch";
StdOutput = "hadrontherapy.out";
StdError = "hadrontherapy.err";
InputSandbox = {"hadrontherapy.sh", "macro.mac"};
OutputSandbox = {"hadrontherapy.err", "hadrontherapy.out", "picco.dat", "disA
", "disEn.dat"};
RetryCount = 7;
Arguments = "hadrontherapy.sh";
Requirements =
Member("GEANT4-6", other.GlueHostApplicationSoftwareRunTimeEnvironment) && c
GlueCEPolicyMaxCPUtime>100 && other.GlueCEStateStatus == "Production" && ot
lueHostNetworkAdapterOutboundIP ;
#CEId = other.GlueCEUniqueID == "grid012.ct.infn.it:2119/jobmanager-pbs-inf
";

```

Applet VncViewer started



Enabling Grids for E-science

The screenshot displays a multi-windowed desktop environment with four Internet Explorer windows. The top row shows windows with addresses like `https://grid003.ct.infn.it/pda/` and `https://grid003.ct.infn.it/pda/infnpd`. The bottom row shows windows with addresses like `https://grid003.ct.infn.it/pda/infnpd` and `http://edt002.cnaf.infn.it:8081/grid`.

The main content area is divided into several sections:

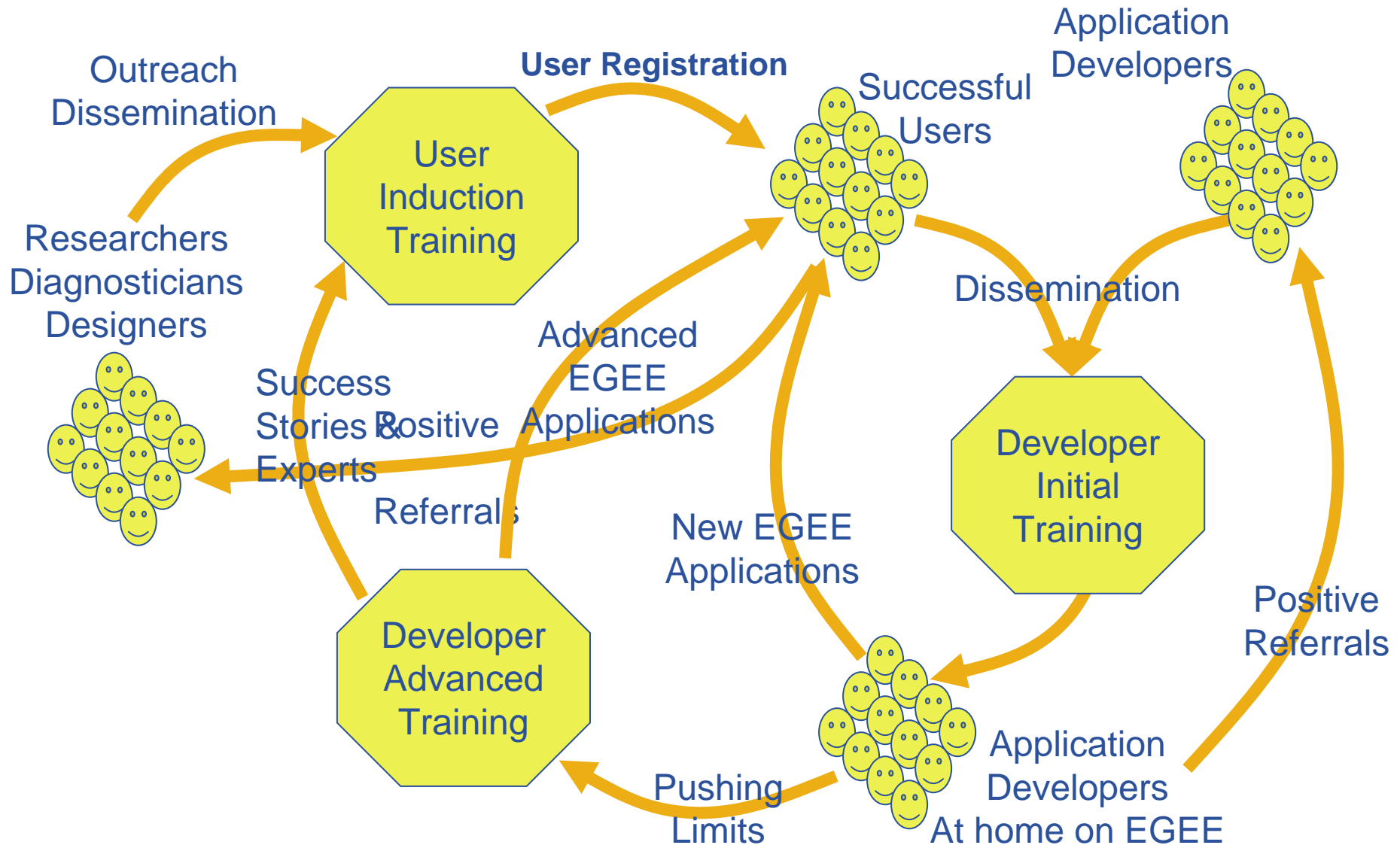
- Navigation Menu:** Lists services such as File Services, Security Services, Job Services, Data Services, Info Services, Monitoring Services, Change RB, Change VO, Change RLS, Browse Statistics, and Logout.
- Job Submission:** A form titled "Job Submission" with a dropdown menu for selecting a JDL file. The dropdown shows files like `/home/barbera/csound.jdl`, `/home/barbera/aliroot.jdl`, and `/home/barbera/demtools.jdl`.
- Job Queue:** A table showing job details:

#	Job ID	JDL Name	Last Update	Destination	Status	Exit Code	Action
4	bYqRSTN1oW6xOuWzVkRG	/home/barbera/hostname.jdl	Thu Oct 9 07:52:14 2003	testbed001.cnaf.infn.it:211	Done	0	Get Output
- Current directory is /:** A list of files in the current directory: `daniprova`, `data.out`, `data.out1`, `data.out2`, `data.out3`, `datatest`, `datatest1`, `edglog.log`, and `hostname.out`.
- Site Status Table:** A table showing the computing power and job load for various sites:

Site	Computing power	JOB Load
ba.infn.it	3064	0%
bo.ingv.it	4797	0%
ct.infn.it	2798	0%
fe.infn.it	21942	0%
lnl.infn.it	2903	0%
mi.infn.it	3972	0%
na.infn.it	n/a	n/a
pd.infn.it	60166	0%
to.infn.it	n/a	n/a
ts.infn.it	n/a	n/a



- **Current implementation of GENIUS includes more than 100 services. Among them:**
 - **grid authentication with MyProxy !**
 - **several Resource Brokers, VO's and RLS/Catalog available;**
 - **full support for “interactive” and DAG jobs;**
 - **web guided job description, submission and monitoring (in collaboration with DATAMAT)**
 - **Web guided workflow description (in collaboration with GridLab)**
 - **P2P services available**
 - **PDA and cell phone versions available**
 - **Transparently compliant with EGEE-0 LCG2, Grid.it and gLite 1 middlewares/VO's**
 - **Interfaced to many generic applications**



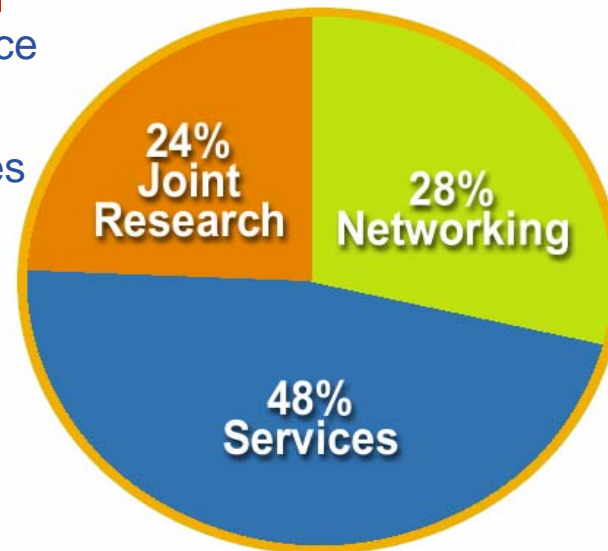
24% Joint Research

JRA1: Middleware Engineering and Integration

JRA2: Quality Assurance

JRA3: Security

JRA4: Network Services Development



48% Services

SA1: Grid Operations, Support and Management

SA2: Network Resource Provision

28% Networking

NA1: Management

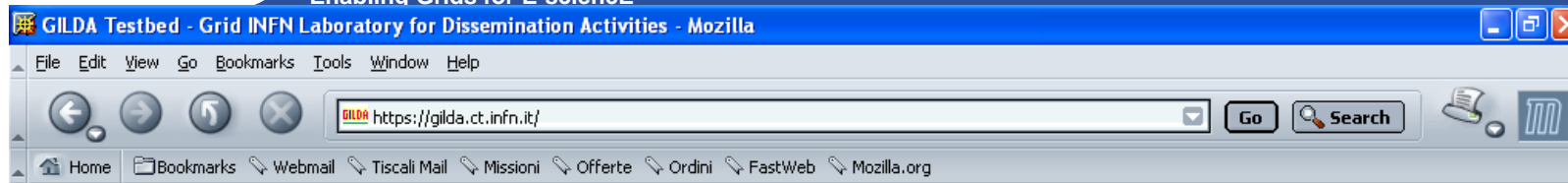
NA2: Dissemination and Outreach

NA3: User Training and Education

NA4: Application Identification and Support

NA5: Policy and International Cooperation

Emphasis in EGEE is on operating a *production Grid* and on supporting the end-users.




GILDA (Grid Infn Laboratory for Dissemination Activities)

- Grid tutorials
- GILDA Poster
- Video tutorials
- Live User Interface
- User Interface PnP 
- Instructions for users
- Instructions for sites
- Useful links

- Sponsors
- Usage Statistics
- Old Usage Statistics

is a virtual laboratory to demonstrate/disseminate the strong capabilities of grid computing.

GILDA consists of the following elements:

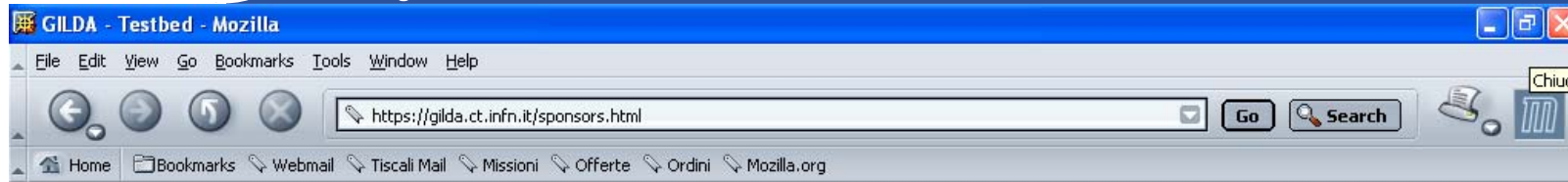
- **the GILDA Testbed:** a series of sites and services (Resource Broker, Information Index, Data Managers, Monitoring tool, Computing Elements, and Storage Elements) spread all over Italy and the rest of the world on which the latest version of both the [INFN Grid](#) middle-ware (fully compatible with [LCG](#) middle-ware) and the [gLite](#)  middle-ware are installed;
- **the Grid Demonstrator:** a customized version of the full [GENIUS web portal](#), jointly developed by INFN and [NICE](#), from where **everybody** can submit a pre-defined set of applications to the GILDA Testbed;
- **the GILDA Certification Authority:** a fully functional Certification Authority which issues 14-days X.509 certificates to everybody wanting to experience grid computing on the GILDA Testbed;
- **the GILDA Virtual Organization:** a Virtual Organization gathering all people wanting to experience grid computing on the GILDA Testbed; GILDA also runs the [Virtual Organization Membership Service](#) (VOMS) developed by INFN;
- **the Grid Tutor:** based on a full version of the [GENIUS web portal](#), to be used only during [grid tutorials](#);
- **the monitoring system:** a versatile monitoring system completely based on [GridICE](#), the grid monitoring tool developed by INFN;
- **the GILDA mailing list:** gilda@infn.it, also archived on the web [here](#).



~15 sites in 3 continents !

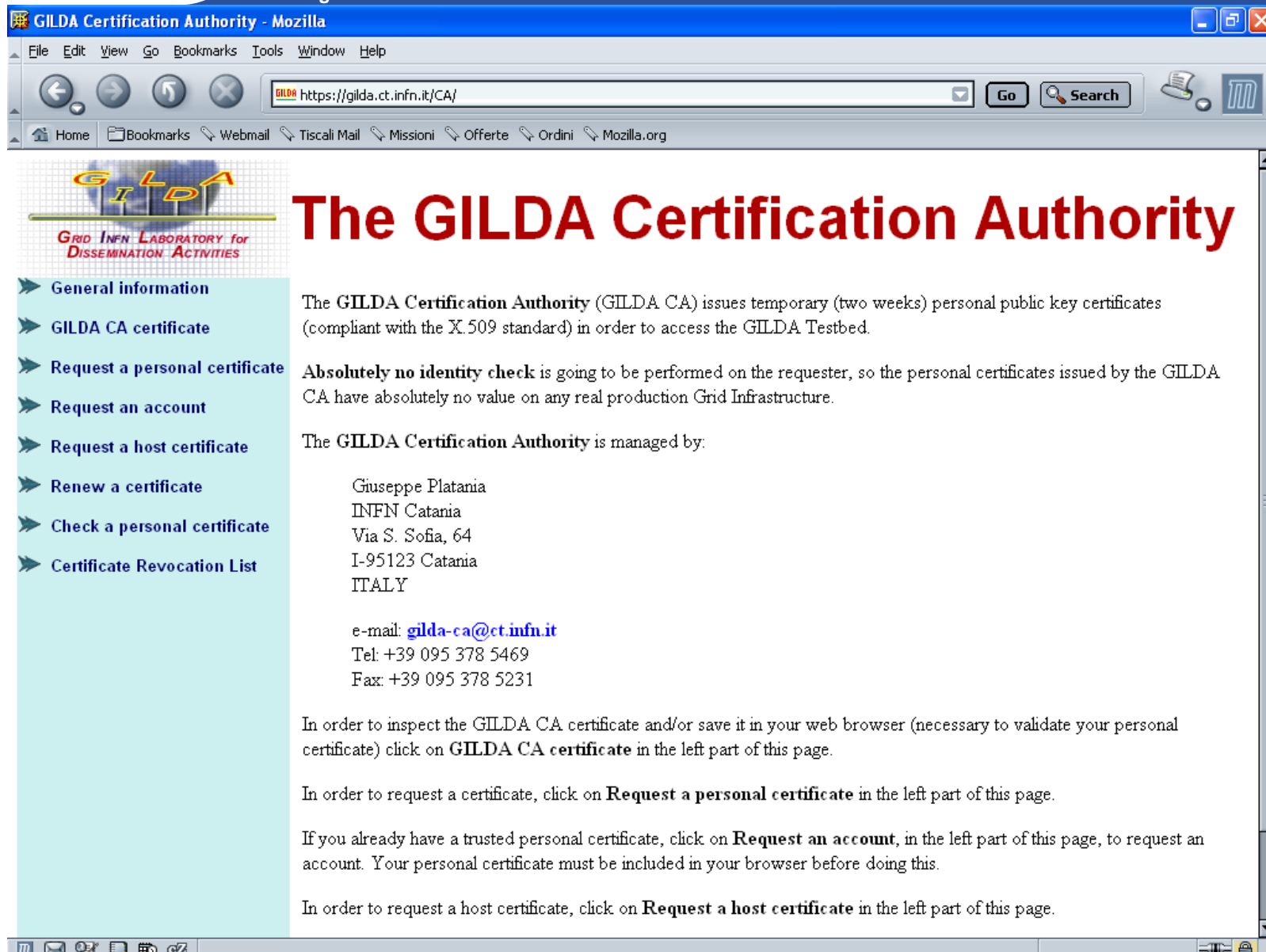
gLite Services

LCG-2 Resource Broker (RB)	grid013.ct.infn.it
LCG-2 Resource Broker (RB)	skurut2.cesnet.cz
LCG-2 Resource Broker (RB)	rb.be.itu.edu.tr
gLite Resource Broker (RB)	glite-rb.ct.infn.it
gLite Resource Broker (RB)	glite-rb2.ct.infn.it
Information Index (BDII)	grid004.ct.infn.it
Backup Information Index (BDII)	grid013.ct.infn.it
GILDA VO server	grid-vo.cnaf.infn.it:10389
GILDA gLite VOMS server	cert-voms-01.cnaf.infn.it:15008
GILDA gLite DGAS Price Authority	grid-demo1.ct.infn.it:56568
GILDA gLite DGAS HLR	grid-demo1.ct.infn.it:56567
GridICE Monitoring System	alifarm7.ct.infn.it:50080
LCG-2 Replica Location Service (RLS)	grid008.ct.infn.it
LCG-2 File Catalog (LFC)	lfc-gilda.ct.infn.it
Backup LCG-2 File Catalog (LFC)	lfc-gilda.cern.ch
gLite FiReMan Catalog	grid017.ct.infn.it
gLite File Transfer/Placement Service	fts.ct.infn.it:8443
gLite R-GMA server	rgmasrv.ct.infn.it:8443
MyProxy Server	grid001.ct.infn.it



GILDA is sponsored by:





The GILDA Certification Authority

GRID INFN LABORATORY for DISSEMINATION ACTIVITIES

- [General information](#)
- [GILDA CA certificate](#)
- [Request a personal certificate](#)
- [Request an account](#)
- [Request a host certificate](#)
- [Renew a certificate](#)
- [Check a personal certificate](#)
- [Certificate Revocation List](#)

The **GILDA Certification Authority** (GILDA CA) issues temporary (two weeks) personal public key certificates (compliant with the X.509 standard) in order to access the GILDA Testbed.

Absolutely no identity check is going to be performed on the requester, so the personal certificates issued by the GILDA CA have absolutely no value on any real production Grid Infrastructure.

The **GILDA Certification Authority** is managed by:

Giuseppe Platania
INFN Catania
Via S. Sofia, 64
I-95123 Catania
ITALY

e-mail: gilda-ca@ct.infn.it
Tel: +39 095 378 5469
Fax: +39 095 378 5231

In order to inspect the GILDA CA certificate and/or save it in your web browser (necessary to validate your personal certificate) click on **GILDA CA certificate** in the left part of this page.

In order to request a certificate, click on **Request a personal certificate** in the left part of this page.

If you already have a trusted personal certificate, click on **Request an account**, in the left part of this page, to request an account. Your personal certificate must be included in your browser before doing this.

In order to request a host certificate, click on **Request a host certificate** in the left part of this page.

Request a GILDA CA personal certificate - Mozilla

File Edit View Go Bookmarks Tools Window Help

https://gilda.ct.infn.it/CA/mgt/restricted/ucert.php

Home Bookmarks mozilla.org mozillaZine mozdev.org

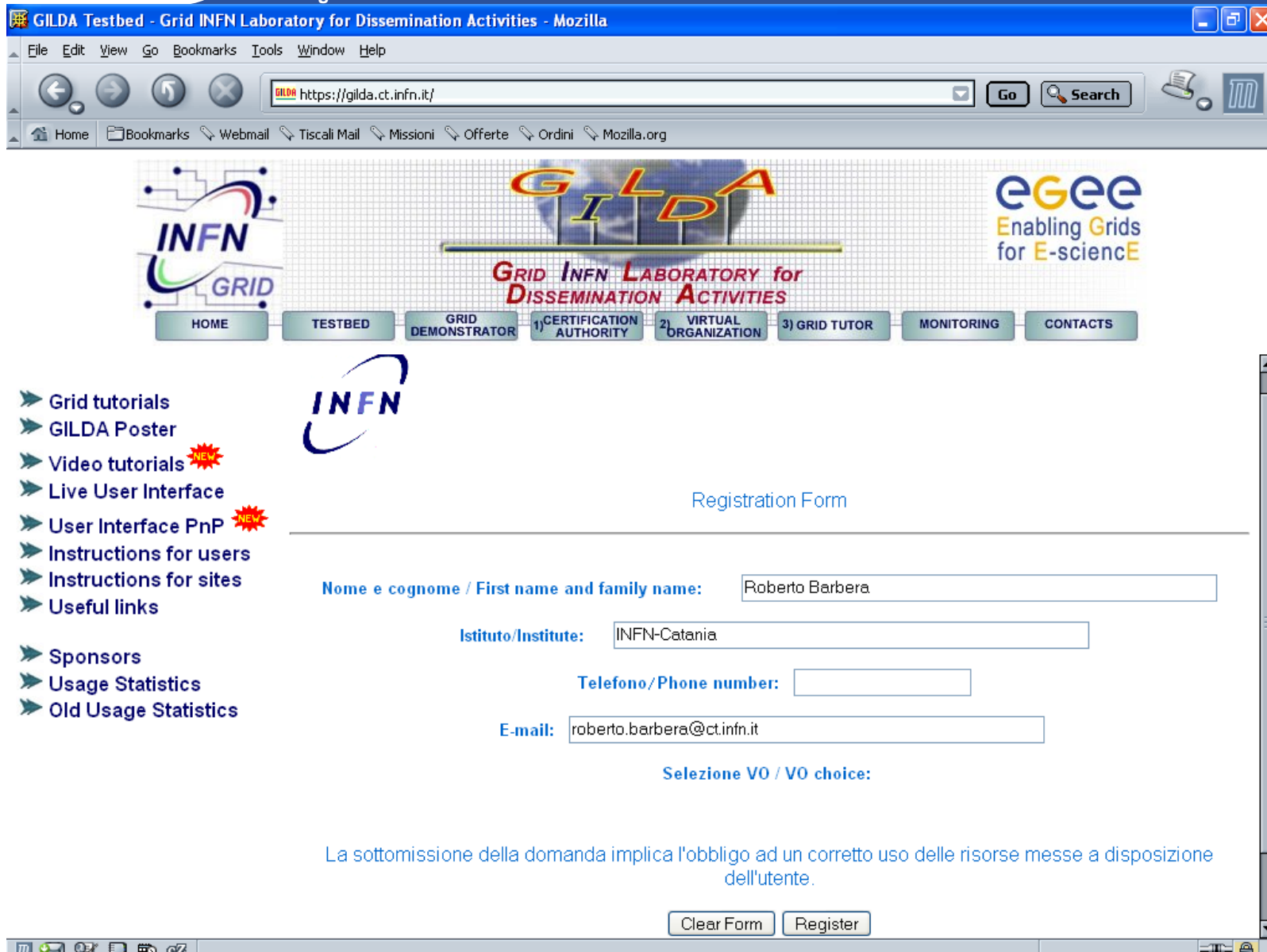
- Request an account
- Request a host certificate
- Check a personal certificate
- Certificate Revocation List

In order to correctly generate a request it is mandatory to fill **all** fields in the form below. Please, double check the correctness of the e-mail address that you are going to provide since **no verification** will be performed by the server.

The password you are prompted about in the form below is the password of your personal account on the **GENIUS Portal** from where you will access the GILDA Testbed and it is **NOT** the passphrase of your personal certificate.

When the certificate will be signed by the GILDA CA manager you will be notified by e-mail with the instructions to download your GILDA CA personal certificate and access the GILDA Testbed.

Institute/University/Company:	<input type="text"/>
First name and last name:	<input type="text"/>
Account username (max 8 characters; only not-accented letters and digits are allowed, both lowercase and uppercase):	<input type="text"/>
Account password (only not-accented letters and digits are allowed, both lowercase and uppercase):	<input type="password"/>
Confirm account password (only not-accented letters and digits are allowed, both lowercase and uppercase):	<input type="password"/>
E-mail:	<input type="text"/>
KeySize:	2048 (High Grade) <input type="button" value="v"/>



GILDA Testbed - Grid INFN Laboratory for Dissemination Activities - Mozilla

File Edit View Go Bookmarks Tools Window Help

https://gilda.ct.infn.it/ Go Search

Home Bookmarks Webmail Tiscali Mail Missioni Offerte Ordini Mozilla.org

INFN GRID

GILDA

GRID INFN LABORATORY for DISSEMINATION ACTIVITIES

eGEE Enabling Grids for E-science

HOME TESTBED GRID DEMONSTRATOR 1) CERTIFICATION AUTHORITY 2) VIRTUAL ORGANIZATION 3) GRID TUTOR MONITORING CONTACTS

INFN

Registration Form

Nome e cognome / First name and family name:

Istituto/Institute:

Telefono/Phone number:

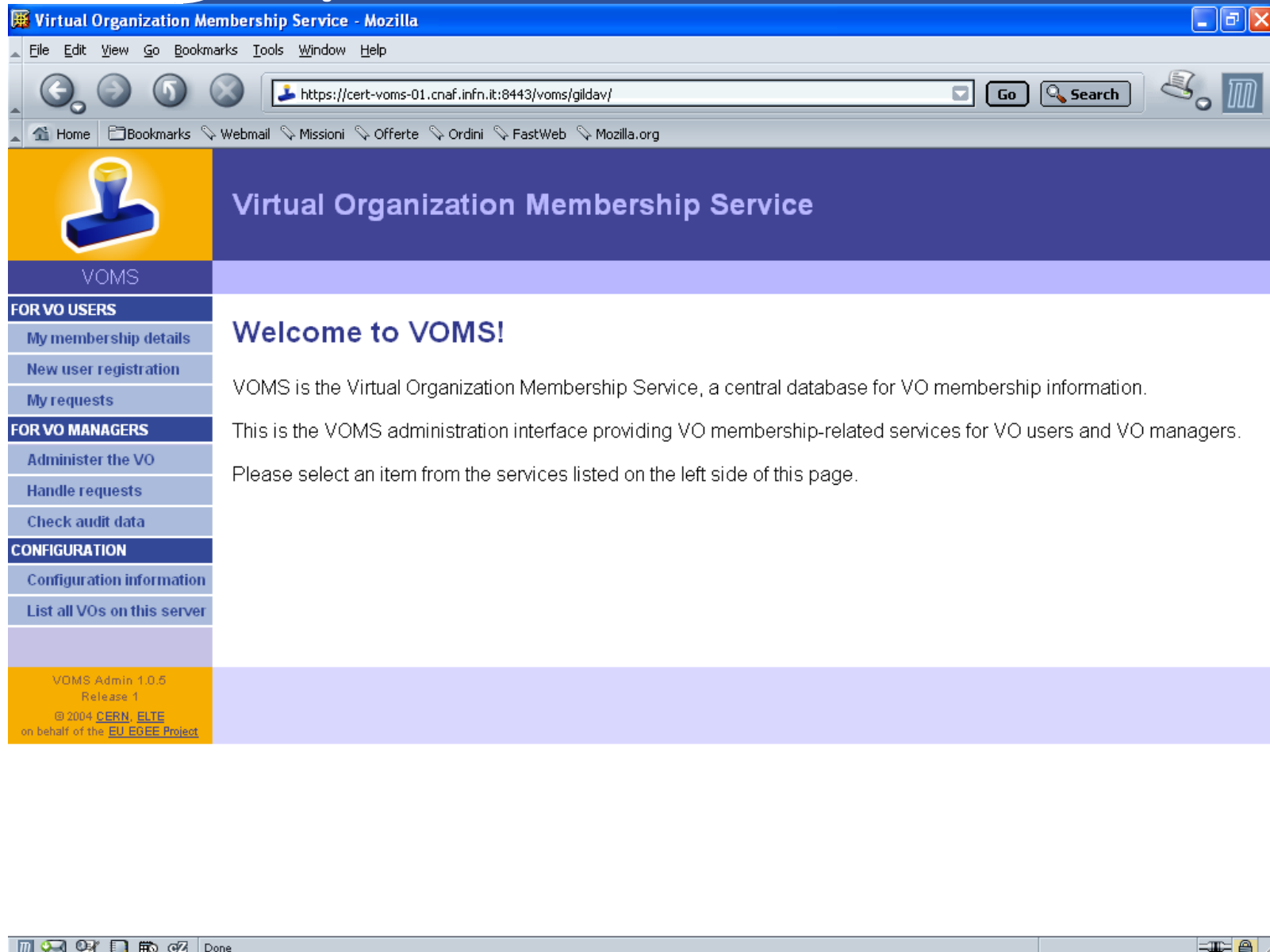
E-mail:

Selezione VO / VO choice:

La sottomissione della domanda implica l'obbligo ad un corretto uso delle risorse messe a disposizione dell'utente.

Clear Form Register

- Grid tutorials
- GILDA Poster
- Video tutorials **NEW**
- Live User Interface
- User Interface PnP **NEW**
- Instructions for users
- Instructions for sites
- Useful links
- Sponsors
- Usage Statistics
- Old Usage Statistics



Virtual Organization Membership Service - Mozilla

File Edit View Go Bookmarks Tools Window Help

https://cert-voms-01.cnaf.infn.it:8443/voms/gildav/ Go Search

Home Bookmarks Webmail Missioni Offerte Ordini FastWeb Mozilla.org

Virtual Organization Membership Service

VOMS

FOR VO USERS

- My membership details
- New user registration
- My requests

FOR VO MANAGERS

- Administer the VO
- Handle requests
- Check audit data

CONFIGURATION

- Configuration information
- List all VOs on this server

VOMS Admin 1.0.5
Release 1
© 2004 CERN, ELTE
on behalf of the EU EGEE Project

Welcome to VOMS!

VOMS is the Virtual Organization Membership Service, a central database for VO membership information.

This is the VOMS administration interface providing VO membership-related services for VO users and VO managers.

Please select an item from the services listed on the left side of this page.

VOMS - List of groups in the gildav VO - Mozilla

File Edit View Go Bookmarks Tools Window Help

https://cert-voms-01.cnaf.infn.it:8443/voms/gildav/webui/admin/grou...

Home Bookmarks Webmail FastWeb FastWeb RM Missioni Offerte Ordini Mozilla.org



List of groups in the gildav VO

The gildav VO Administration » Groups » List of groups

ADMINISTRATION

USERS

- List of users
- Search for users
- Create a new VO user

GROUPS

- List of groups
- Search for groups
- Create a new group

ROLES

- list the roles
- search for roles
- add a new role

GLOBAL ACL

Group tree for the /gildav group :

```

>> /gildav
+ /gildav/staff
+ /gildav/tutors
+ /gildav/personal-users
+ /gildav/generic-users
Role=SoftwareManager
Role=TrailersManager
Role=VO-Admin
  
```

list ACL		add users
list ACL	delete	add users
list ACL	delete	add users
list ACL	delete	add users
list ACL	delete	add users
list ACL	delete	add users
list ACL	delete	add users
list ACL	delete	add users

You can display the ACL or *delete* the group with the corresponding button.

VOMS Admin 1.1.2
Release 1
Copyright © 2005 CERN, ELITE
on behalf of the EU eGEE Project

You are logged in as "/C=IT/O=INFN/OU=Personal Certificate/L=Catania/CN=Roberto Barbera/Email=roberto.barbera@ct.infn.it" certified by "/C=IT/O=INFN/CN=INFN Certification Authority".

VOMS - Virtual Organization Membership Service - Mozilla

File Edit View Go Bookmarks Tools Window Help

https://cert-voms-01.cnaf.infn.it:8443/voms/gildav/webui/admin/role...

Home Bookmarks Webmail FastWeb FastWeb RM Missioni Offerte Ordini Mozilla.org



Virtual Organization Membership Service

The gildav VO Administration » Roles » list the roles

ADMINISTRATION

USERS

- List of users
- Search for users
- Create a new VO user

GROUPS

- List of groups
- Search for groups
- Create a new group

ROLES

- list the roles
- search for roles
- add a new role

GLOBAL ACL

The roles in this VO :

Role=SoftwareManager	list ACL	delete	add users
Role=TrailersManager	list ACL	delete	add users
Role=VO-Admin	list ACL	delete	add users

You can display the ACL, or *delete* the role with the corresponding button.

VOMS Admin 1.1.2
Release 1
Copyright © 2005 CERN, ELITE
on behalf of the EU eGEE Project

You are logged in as "/C=IT/O=INFN/OU=Personal Certificate/L=Catania/CN=Roberto Barbera/Email=roberto.barbera@ct.infn.it" certified by "/C=IT/O=INFN/CN=INFN Certification Authority".


```

alipc5.ct.infn.it - barbera@alipc5* - SSH Secure Shell
File Edit View Window Help
[barbera@glite-tutor:~]$ dgas-check-ce-price grid010.ct.infn.it:2119/jobmanager-
lcppbs-short

Price Authority queried at: Fri Oct 21 11:40:55 CEST 2005
Computing Element: grid010.ct.infn.it:2119/jobmanager-lcppbs-short
Price (credits for 100 CPU secs): 170

[barbera@glite-tutor:~]$
[barbera@glite-tutor:~]$
[barbera@glite-tutor:~]$
[barbera@glite-tutor:~]$ dgas-check-balance

User: Roberto Barbera
E-mail: roberto.barbera@ct.infn.it
Subject: /C=IT/O=INFN/OU=Personal Certificate/L=Catania/CN=Roberto Barbera/Email
=roberto.barbera@ct.infn.it
Assigned credits (0=infinite): 0
Booked credits: 0
Used credits: 17
Used wall clock time (sec): 377
Used CPU time (sec): 24
Accounted jobs: 4

[barbera@glite-tutor:~]$
    
```



The GILDA Monitoring System (based on GridICE) (http://alifarm7.ct.infn.it:50080/gridice)

Enabling Grids for E-science

INFN - GridICE - Grid Monitoring Service - Mozilla

File Edit View Go Bookmarks Tools Window Help

http://alifarm7.ct.infn.it:50080/gridice/site/site.php

GridICE the eyes of the Grid

Site view VO view Help About

GRID INFN LABORATORY for DISSEMINATION ACTIVITIES

GridICE >> Site::ALL

General	Gris	Host	Job	Charts	Network									
Computing Resources														
Site	Domain	GK#	Q#	RunJob	WaitJob	SlotLoad	Power	WN#	CPU#	CPUload	Storage Resources			
CENAPAD-UNICAMP	cna.unicamp.br	1	3	2	0	100%	3K	1	1	17%	30.3 GB	32.9 GB	8%	
CNR-ROMA	datagrid.cnr.it	1	3	1	0	0%	-	-	-	-	12.3 GB	17.2 GB	23%	
DIST-GENOVA	bio.dist.unige.it	1	3	4	0	57%	29K	3	6	67%	369.9 GB	370.5 GB	6%	
ELETTRA-TRIESTE	grid.elettra.trieste.it	1	3	0	0	0%	24K	2	4	6%	13.3 GB	16.9 GB	21%	
INAF-CATANIA	oact.inaf.it	1	3	2	3	100%	-	-	-	-	-	-	-	
INFN-CATANIA	ct.infn.it	1	3	10	0	29%	22K	1	4	6%	162.4 GB	274 GB	1%	
INFN-CNAF	cna.infn.it	1	4	7	0	4%	-	-	-	-	-	-	-	
INFN-PADOVA	pd.infn.it	1	4	3	0	5%	62K	10	20	6%	332.8 GB	332.9 GB	6%	
ITU-Turkey	be.itu.edu.tr	1	3	4	13	100%	-	-	-	-	136.9 GB	139.3 GB	2%	
ULA-MERIDA	cecalc.ula.ve	1	4	1	8	100%	7K	2	3	17%	13.2 GB	16 GB	17%	
TOTAL														

INFN - GridICE - Grid Monitoring Service - Mozilla

File Edit View Go Bookmarks Tools Window Help

http://alifarm7.ct.infn.it:50080/gridice/job/details.php?SID=188&M=10&SY=2005&EndD=21&EndM=10&En

GridICE the eyes of the Grid

Site view VO view Help About

GRID INFN LABORATORY for DISSEMINATION ACTIVITIES

GridICE >> Site::ALL >> Site::ALL

CE SE Gris Host Job Charts

From: Day 18 Month 10 Year 2005 To: Day 21 Month 10 Year 2005

Site: All Sites VO: All VOs Status: Running, Queued ID: Jobs x page: 20 view

View 1 View 2 View 3

55 Entries in 3 Pages 1 | 2 | 3 | Next | Last

#	LocalID	VO	Site	Status	Creation	Start	Duration	CPU/Wall	Exit	RAM	VM	RB
1	2235	gilda	INFN-PADOVA	R	2005-10-21 11:27	00:00:00	0	0.99	0	71.64 MB	133.29 MB	grid004.ct.infn.it
2	7056	gilda	INFN-CATANIA	R	2005-10-21 11:22	00:00:00	0	1.02	0	27.69 MB	90.29 MB	grid004.ct.infn.it
3	1294	gilda	ULA-MERIDA	Q	2005-10-21 11:15	0	0	0	0	0	0	grid004.ct.infn.it
4	1293	gilda	ULA-MERIDA	Q	2005-10-21 11:15	0	0	0	0	0	0	grid004.ct.infn.it
5	7055	gilda	INFN-CATANIA	R	2005-10-21 11:15	00:00:01	0	1.02	0	27.69 MB	90.29 MB	grid004.ct.infn.it
6	1292	gilda	ULA-MERIDA	Q	2005-10-21 11:14	0	0	0	0	0	0	grid004.ct.infn.it
7	1290	gilda	ULA-MERIDA	Q	2005-10-21 11:14	0	0	0	0	0	0	grid004.ct.infn.it
8	1291	gilda	ULA-MERIDA	Q	2005-10-21 11:14	0	0	0	0	0	0	grid004.ct.infn.it
9	7054	gilda	INFN-CATANIA	R	2005-10-21 11:14	00:00:00	0	1.01	0	111.28 MB	171.41 MB	grid004.ct.infn.it
10	7053	gilda	INFN-CATANIA	R	2005-10-21 11:14	00:00:00	0	1.02	0	115.61 MB	176.8 MB	grid004.ct.infn.it
11	7052	gilda	INFN-CATANIA	R	2005-10-21 11:14	00:00:01	0	1.02	0	111.56 MB	173 MB	grid004.ct.infn.it
12	7051	gilda	INFN-CATANIA	R	2005-10-21 11:12	00:00:00	0	1.02	0	50.51 MB	112.87 MB	grid004.ct.infn.it
13	7050	gilda	INFN-CATANIA	R	2005-10-21 11:12	00:00:00	0	1.01	0	105.27 MB	166.71 MB	grid004.ct.infn.it
14	7049	gilda	INFN-CATANIA	R	2005-10-21 11:11	00:00:00	0	1.02	0	125.35 MB	186.8 MB	grid004.ct.infn.it
15	7048	gilda	INFN-CATANIA	R	2005-10-21 11:10	00:00:00	0	1.01	0	32.24 MB	94.82 MB	grid004.ct.infn.it
16	7047	gilda	INFN-CATANIA	R	2005-10-21 11:10	00:00:00	0	1.01	0	87.5 MB	149.13 MB	grid004.ct.infn.it

INFN - GridICE - Grid Monitoring Service - Mozilla

File Edit View Go Bookmarks Tools Window Help

http://alifarm7.ct.infn.it:50080/gridice/chart/chart.php?from=Site%3A%3AALL&viewChart=Stat

GridICE >> Site::ALL

General Gris Host Job Charts Network

Jobs Statistic Jobs Wall Time vs time Jobs R/Q vs

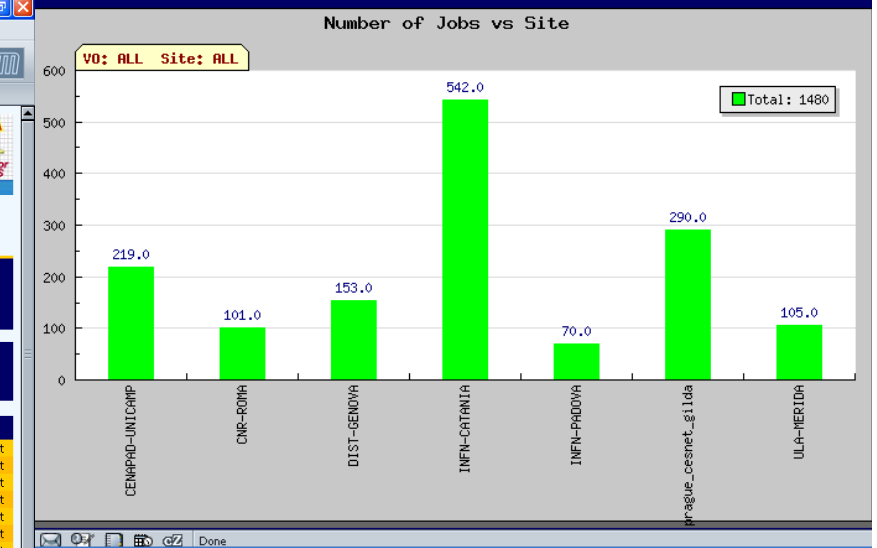
Select the type of chart: Number of Jobs Graphic Type vs (x-axis) Site

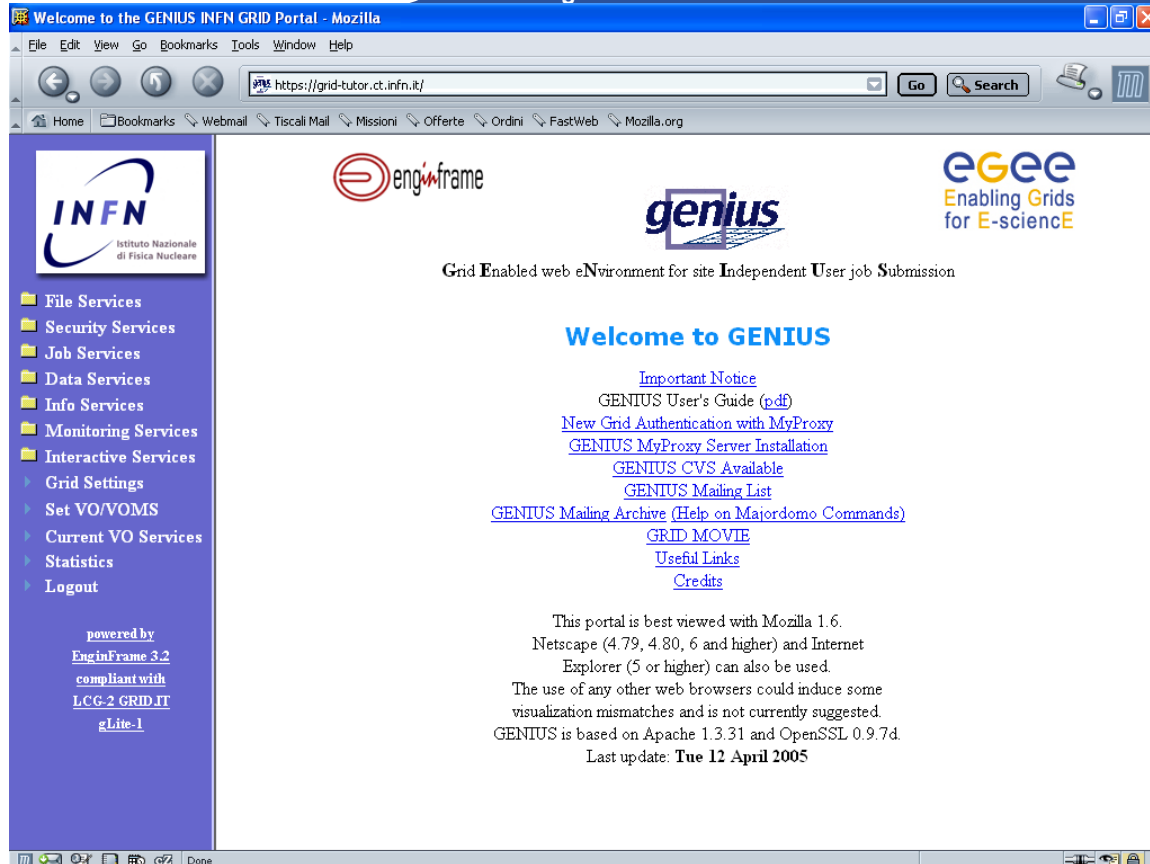
Select (optional): Site ALL VO ALL

Set time: From Day 7 Month October Year 2005 To Day 21 Month October

Set dimension: Width(pixel) 500 Height(pixel) 300 Show Bar Value

View Graph









Welcome to the GENIUS INFN GRID Portal - Mozilla

File Edit View Go Bookmarks Tools Window Help

https://grid-tutor.ct.infn.it/

Home Bookmarks Webmail Tiscali Mail Missioni Offerte Ordini FastWeb Mozilla.org

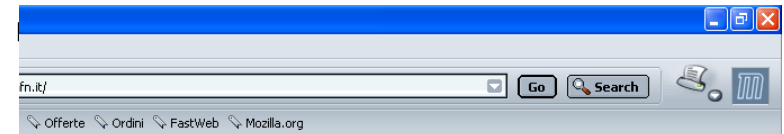
Grid Enabled web eNvironment for site Independent User job Submission

Welcome to GENIUS

[Important Notice](#)
[GENIUS User's Guide \(pdf\)](#)
[New Grid Authentication with MyProxy](#)
[GENIUS MyProxy Server Installation](#)
[GENIUS CVS Available](#)
[GENIUS Mailing List](#)
[GENIUS Mailing Archive \(Help on Majordomo Commands\)](#)
[GRID MOVIE](#)
[Useful Links](#)
[Credits](#)

This portal is best viewed with Mozilla 1.6.
 Netscape (4.79, 4.80, 6 and higher) and Internet Explorer (5 or higher) can also be used.
 The use of any other web browsers could induce some visualization mismatches and is not currently suggested.
 GENIUS is based on Apache 1.3.31 and OpenSSL 0.9.7d.
 Last update: Tue 12 April 2005

powered by
[EnginFrame 3.2](#)
 compliant with
[LCG-2 GRID.IT](#)
[gLite-1](#)



fr.it/

Offerte Ordini FastWeb Mozilla.org



Grid Enabled web eNvironment for site Independent User job Submission

Welcome to GENIUS based on



[Important Notice](#)
[GENIUS User's Guide \(pdf\)](#)
[New Grid Authentication with MyProxy](#)
[GENIUS MyProxy Server Installation](#)
[GENIUS CVS Available](#)
[GENIUS Mailing List](#)
[GENIUS Mailing Archive \(Help on Majordomo Commands\)](#)
[GRID MOVIE](#)
[Useful Links](#)
[Credits](#)

This portal is best viewed with Mozilla 1.6.
 Netscape (4.79, 4.80, 6 and higher) and Internet Explorer (5 or higher) can also be used.
 The use of any other web browsers could induce some visualization mismatches and is not currently suggested.



Welcome to the GENIUS INFN GRID Portal - Mozilla

File Edit View Go Bookmarks Tools Window Help

https://grid-demo.ct.infn.it/

Home Bookmarks mozilla.org mozillaZine mozdev.org

INFN Istituto Nazionale di Fisica Nucleare

enginframe

genius

EGEE Enabling Grids for E-science in Europe

Grid Enabled web eNvironment for site Independent User job Submission

File Services

Security Services

Info Services

Monitoring Services

VO Services

Logout

powered by EnginFrame 3.2 compliant with LCG-2 GRID.IT

Demonstrator Applications

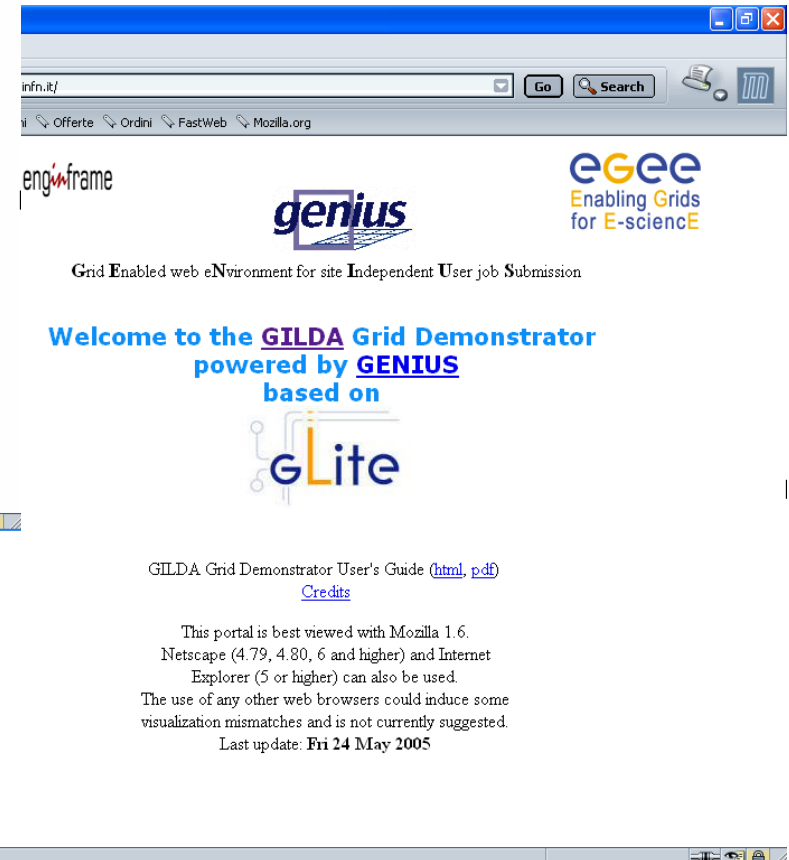
Welcome to the **GILDA Grid Demonstrator powered by GENIUS**

GILDA Grid Demonstrator User's Guide ([html](#), [pdf](#))

[Credits](#)

This portal is best viewed with Mozilla 1.6. Netscape (4.79, 4.80, 6 and higher) and Internet Explorer (5 or higher) can also be used. The use of any other web browsers could induce some visualization mismatches and is not currently suggested. Last update: **Fri 3 Sep 2004**

LCG-2 GRID.IT
gLite-1



infn.it/

Offerte Ordini FastWeb Mozilla.org

enginframe

genius

EGEE Enabling Grids for E-science

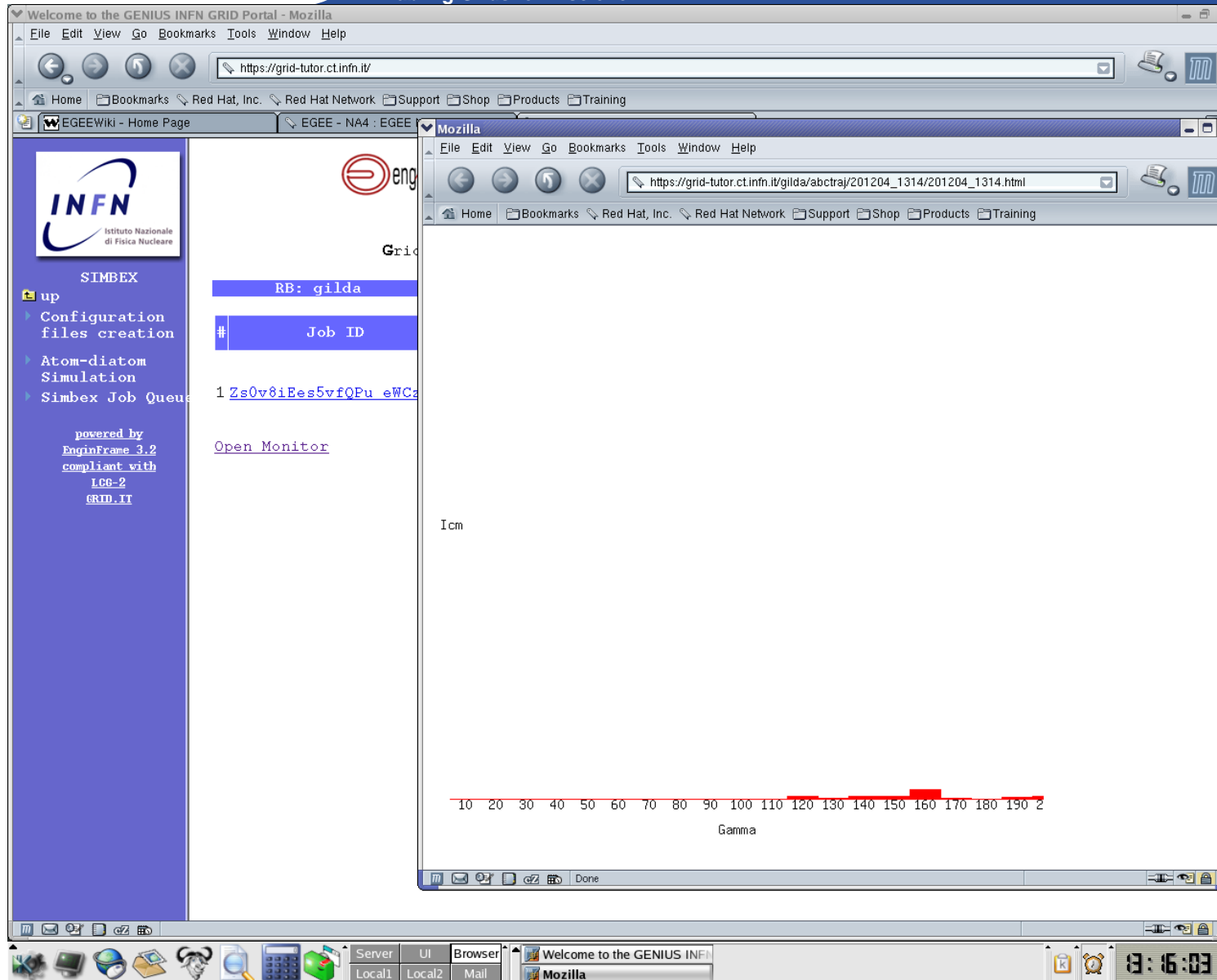
Grid Enabled web eNvironment for site Independent User job Submission

Welcome to the **GILDA Grid Demonstrator powered by GENIUS based on GLite**

GILDA Grid Demonstrator User's Guide ([html](#), [pdf](#))

[Credits](#)

This portal is best viewed with Mozilla 1.6. Netscape (4.79, 4.80, 6 and higher) and Internet Explorer (5 or higher) can also be used. The use of any other web browsers could induce some visualization mismatches and is not currently suggested. Last update: **Fri 24 May 2005**



The screenshot shows a Mozilla browser window displaying the GENIUS INFN GRID Portal. The page includes a sidebar with navigation links, a main content area with a table of job IDs, and a plot of Gamma values.

Job ID Table:

#	Job ID
1	Zs0v8iEes5vfQPu_eWCz

Gamma Plot:

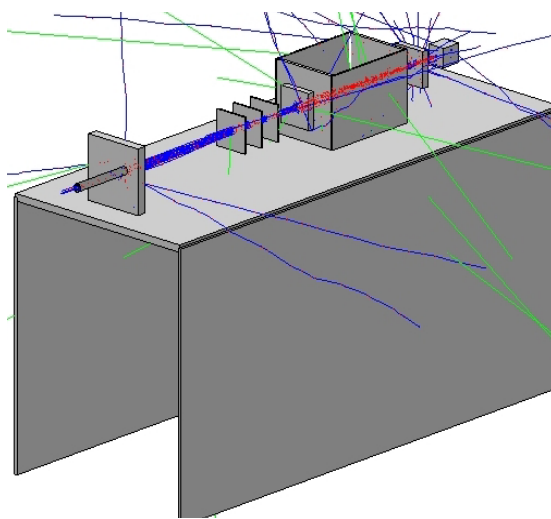
The plot shows a horizontal axis labeled 'Gamma' with values from 10 to 200. A single red bar is visible at approximately Gamma = 160.

Interactive
MPI jobs !

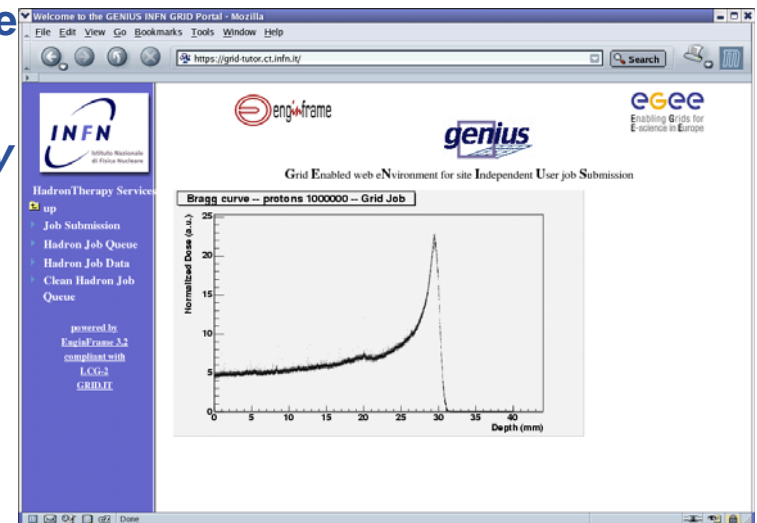
CATANA beam line in reality



hadronTherapy in GENIUS



CATANA beam line simulated by hadronTherapy




Welcome to the GENIUS INFN GRID Portal - Mozilla


File Edit View Go Bookmarks Tools Window Help


https://grid-tutor.ct.infn.it/


Home Bookmarks Red Hat, Inc. Red Hat Network Support Shop Products Training



Istituto Nazionale di Fisica Nucleare







Enabling Grids for E-science in Europe

Grid Enabled web eNvironment for site Independent User job Submission

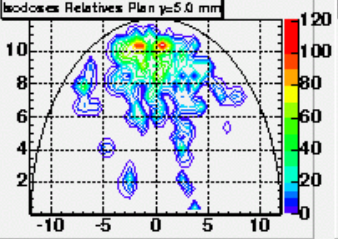
RB: gilda	VO: gilda	RLS: GILDA	Your Data	Logout
-----------	-----------	------------	-----------	--------

Directory contents - tmp1100001761583.ef/gate_job_list_20041109_123955

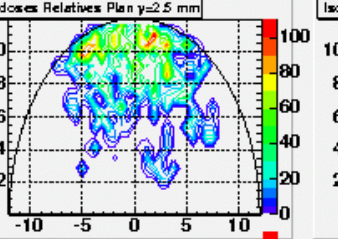
RelDoseTree.gif (GIF Image, 606x302 pixels) - Mozilla

https://grid-tutor.ct.infn.it/ef/download/RelDoseTree.gif

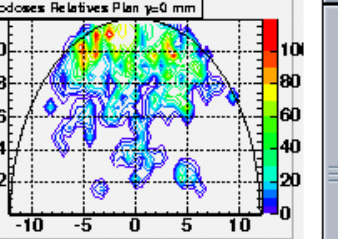
Isodoses Relatives Plan y=5.0 mm



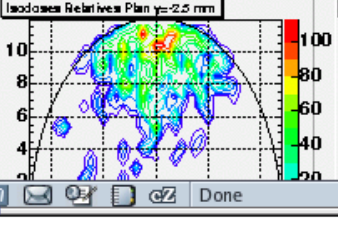
Isodoses Relatives Plan y=2.5 mm



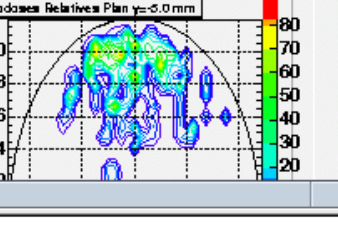
Isodoses Relatives Plan y=0 mm




Isodoses Relatives Plan y=-2.5 mm

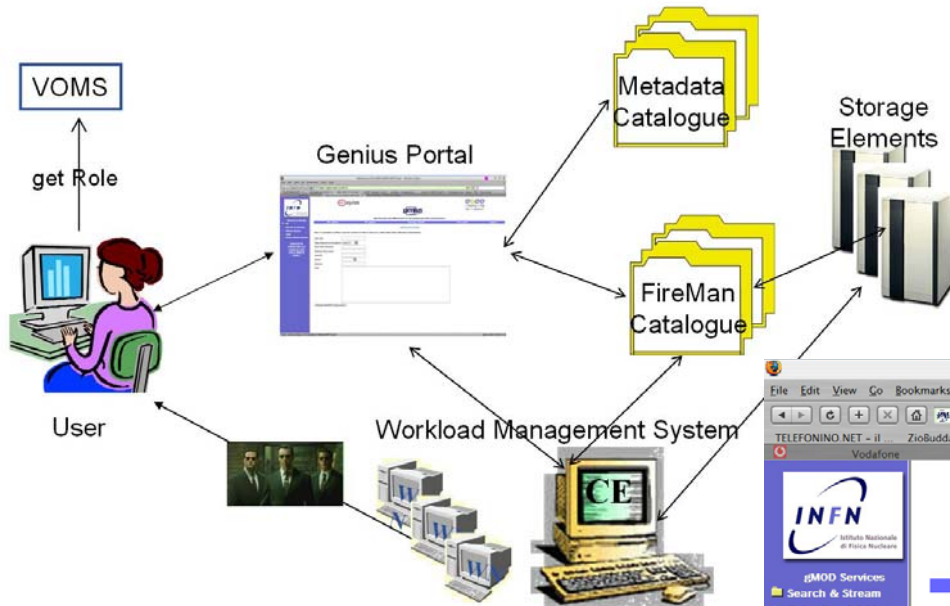


Isodoses Relatives Plan y=-5.0 mm





Done



Grid for Entertainment !

Welcome to the GENIUS INFN GRID Portal - Mozilla Firefox

https://glite-tutor.ct.infn.it/

powered by EnginFrame 3.2 compliant with LCG-2 GRID II glite-1

Grid Enabled web eNvironment for site Independent User job Submission

RB: gldav	VO: gldav	Catalog: GILDA	Your Data	Logout
-----------	-----------	----------------	-----------	--------

You have selected the trailer /trailers/Shrek2.mpg. These are the attributes of the trailer you have chosen.

Title	Shrek 2				
Run Time	92	Country	USA	Release Date	2004
Genre	Action	Director	William Steig		
Cast	Mike Myers ... Shrek (voice) Eddie Murphy ... Donkey (voice) Cameron Diaz ... F... (voice) John Cleese ... King (voice) Rupert Everett ... Prince Charming (voice) J... Page/Eli/Nobleman/Nobleman's Son (voice) Cody Cameron ... Pinocchio/Three (voice) Christopher Knights ... Blind Mouse (voice) David P. Smith ... Herald/Mar...				
Plot Outline	The film picks up right where the first movie ended... Shrek and Fiona return from... The only problem is that they have no idea that their daughter is now an ogre.				

```

LFN: /trailers/Shrek2.mpg
Created: 2005-10-13 17:23:58.000
Modified: 2005-10-13 17:23:58.000
Size: 6100996
Type: File
Expires: Never
GUID: 000E0e2e-7c0d-134e-a731-c1e0d08dbeeF
Created: 2005-10-13 17:24:03.000
Modified: 2005-10-13 17:24:03.000
Size: 6100996
Checksum: 00000000
Status: 0
User: /C=IT/O=GILDA/OU=Personal Certificate/L=INAF
Group: egee-group
User rights: pdrul-gs
Group rights: pdrul-gs
    
```




Grid tutorials

- GILDA Poster
- Video tutorials
- Live User Interface
- User Interface PnP **NEW**
- Instructions for users
- Instructions for sites
- Useful links

Sponsors

- Usage Statistics
- Old Usage Statistics

GILDA PnP
GILDA User Interfaces Plug & Play

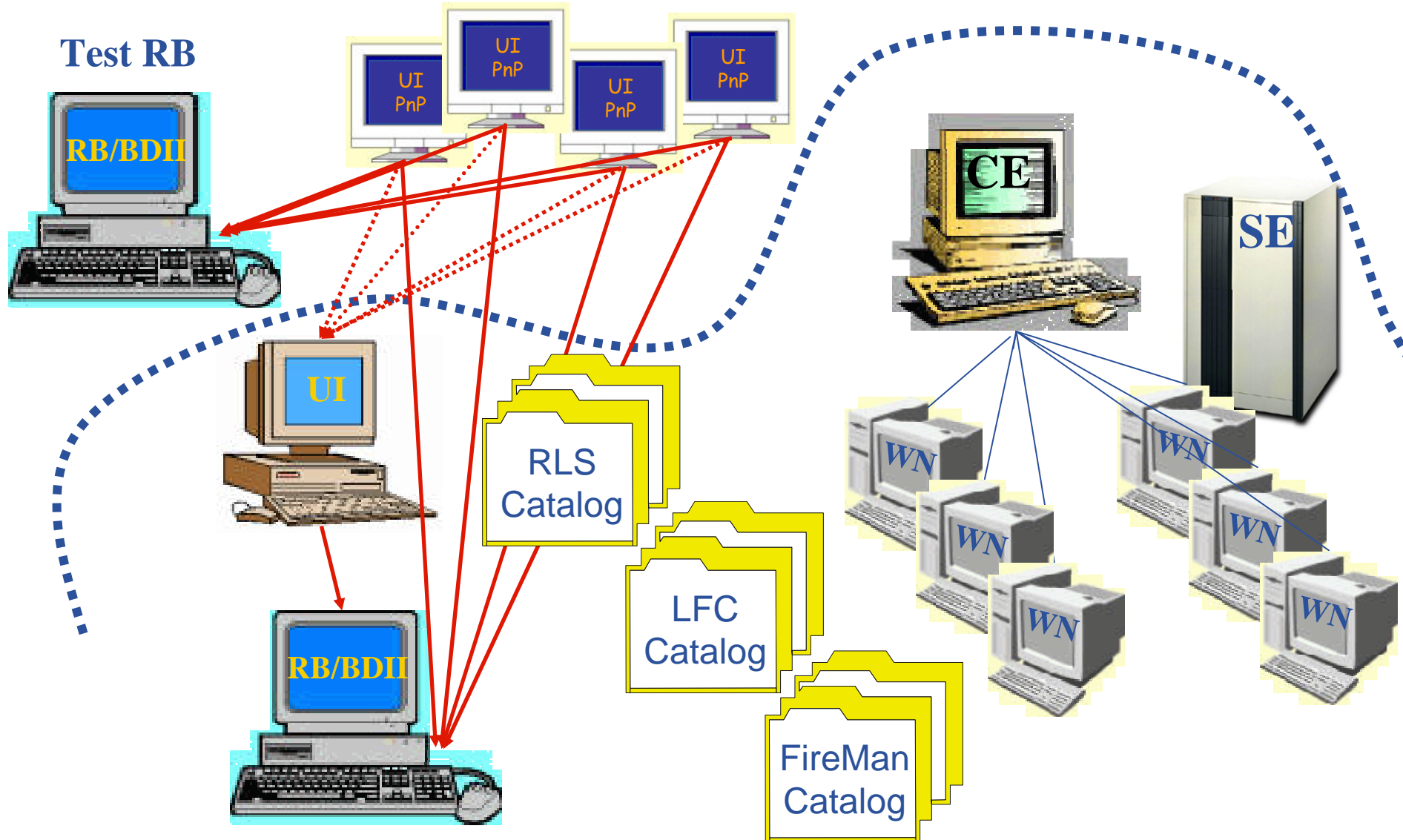
GILDA USER INTERFACE PLUG & PLAY COMBINED (LCG AND GLITE)

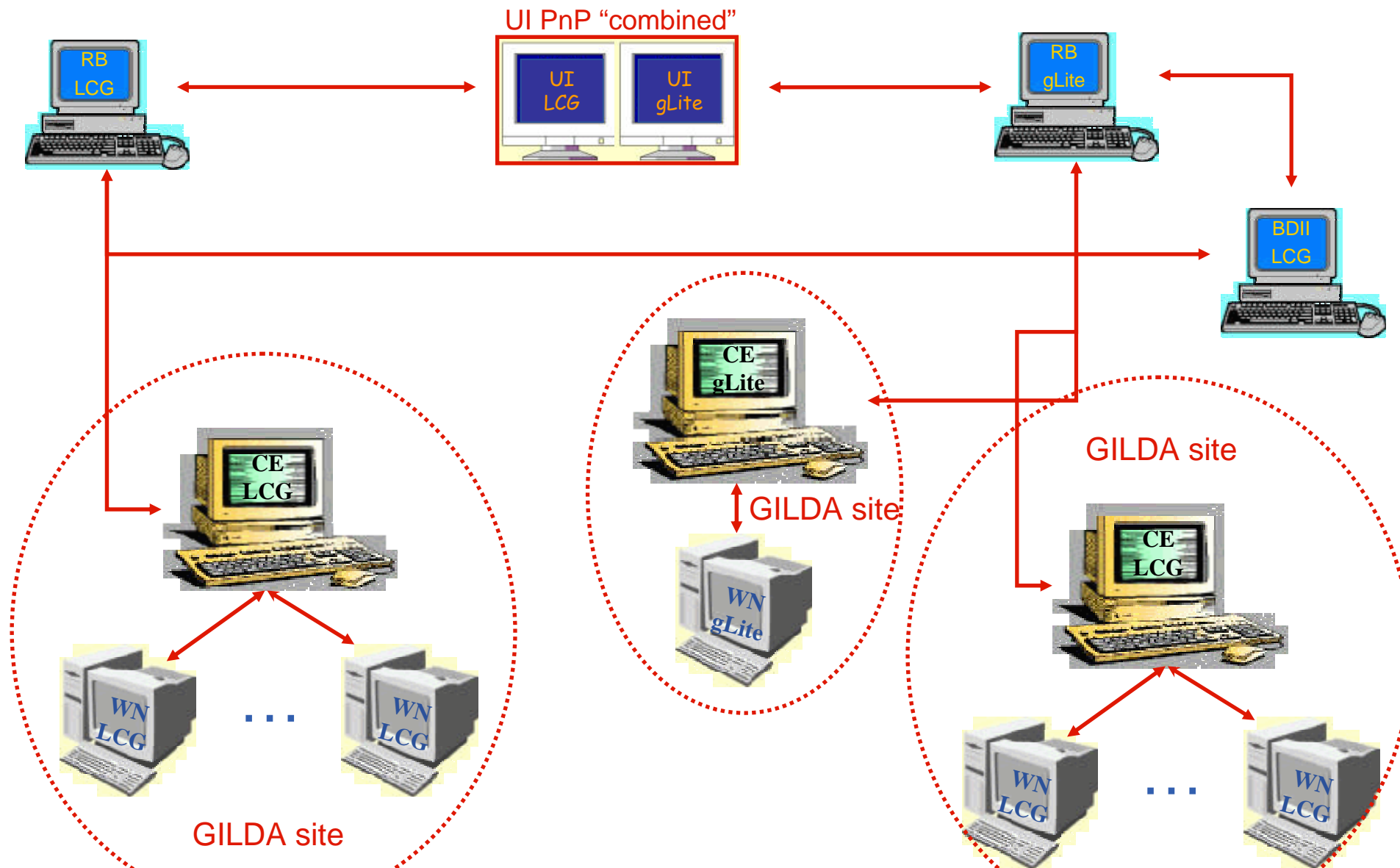
The *GILDA User Interface Plug & Play* tarball contains all the necessary software to seamlessly turn your Linux PC into a machine from you can access and use the *GILDA* dissemination grid realized in the context of both the Italian *INFN Grid Project* and the European *EGEE Project*. The installation procedure installs the User Interface in the user directory so no root privilege is required. This User Interface is based both on *INFN Grid 2.4.0* (fully compatible with *LCG 2.4.0*) and *gLite 1.1*.

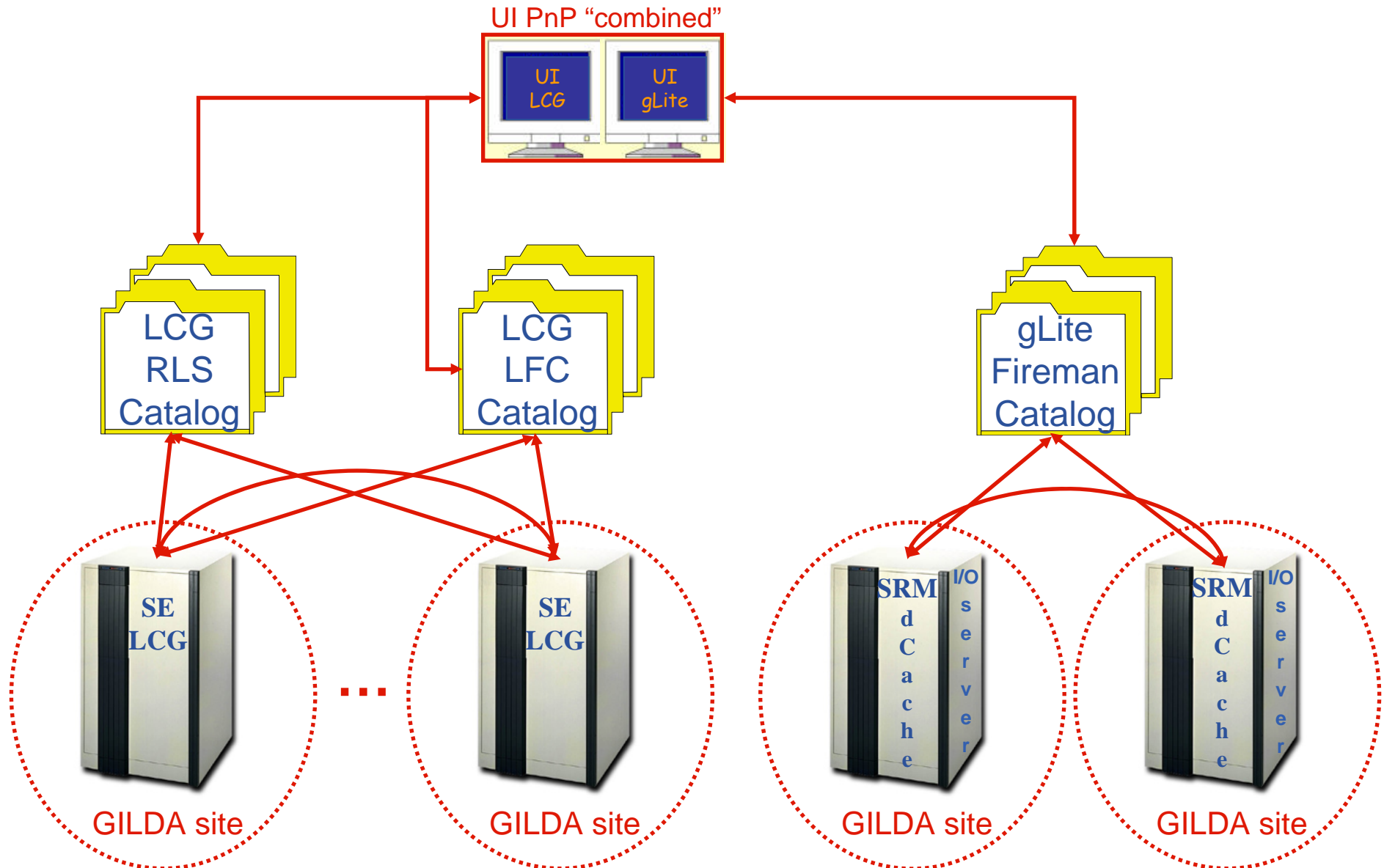
GILDA User Interface Plug & Play

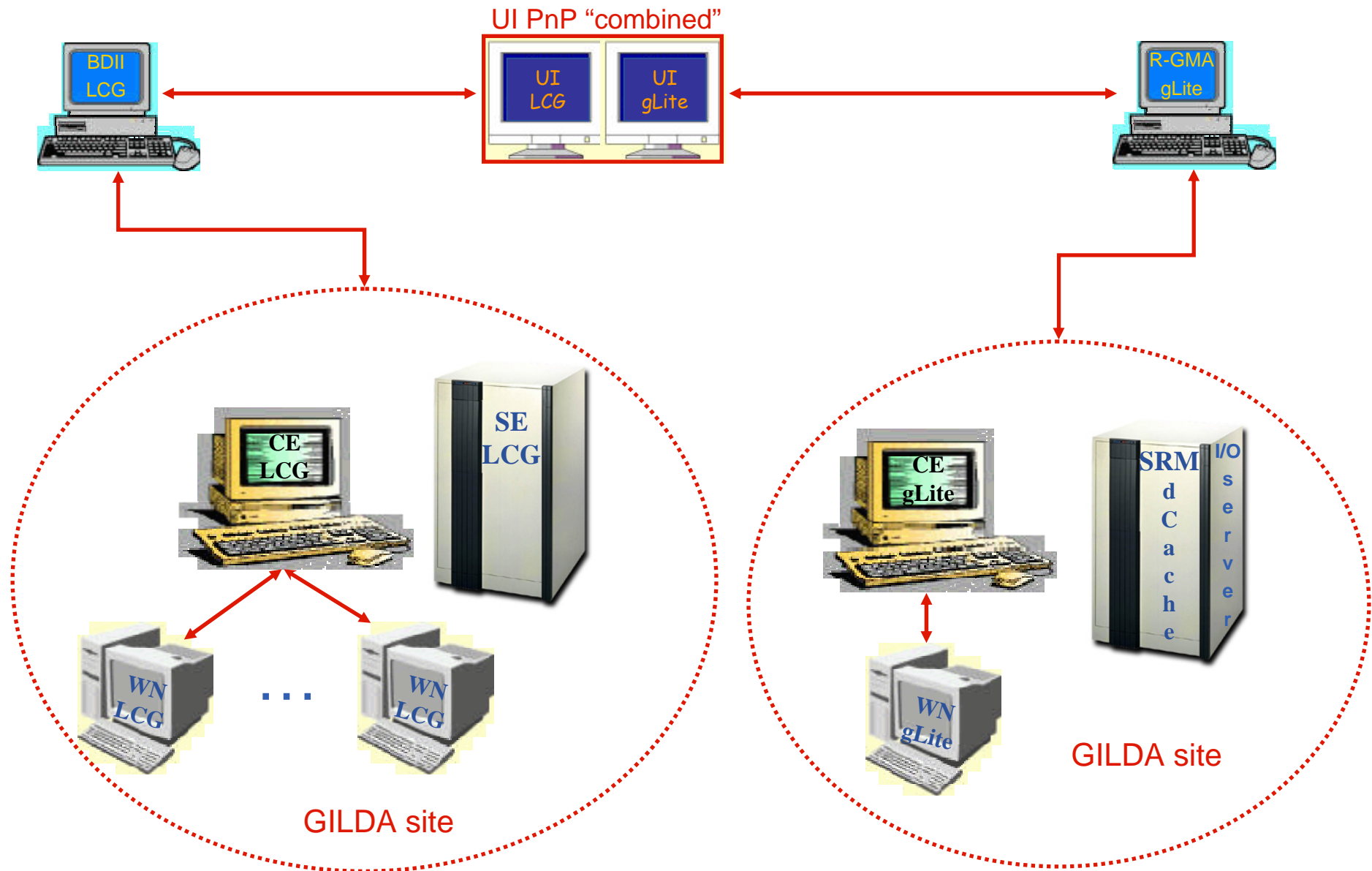
- Introduction
- Use
- Download
- Useful links & info
- Contacts & acknowledgments

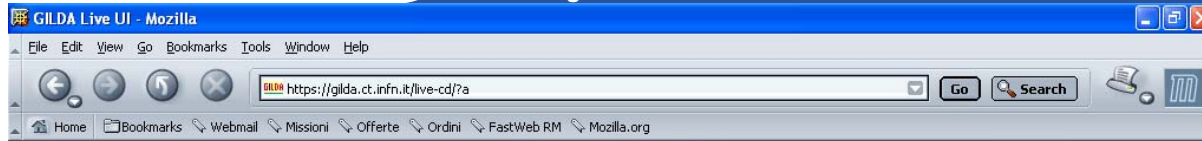
Students User Interfaces











- Grid tutorials
- GILDA Poster
- Video tutorials
- Live User Interface NEW
- User Interface PnP
- Instructions for users
- Instructions for sites
- Useful links

- Sponsors
- Usage Statistics
- Old Usage Statistics



GILDA LIVE USER INTERFACE

The *GILDA Live User Interface* DVD contains all the necessary software and use the [GILDA](#) dissemination grid realized in the context of the [INFN Grid Project](#) and the European [EGEE Project](#).
GILDA Live User Interface is based both on [INFN Grid 2.4.0](#) (fully compliant with [LCG 2.4.0](#)) and [gLite 1.1](#) on [Knoppix 3.6](#).

SYSTEM REQUIREMENTS

The Grid middleware installed on the GILDA testbed and, then, on

GILDA Live
User
Interface



GILDA User Interface
gLite 1.1 and LCG 2.4



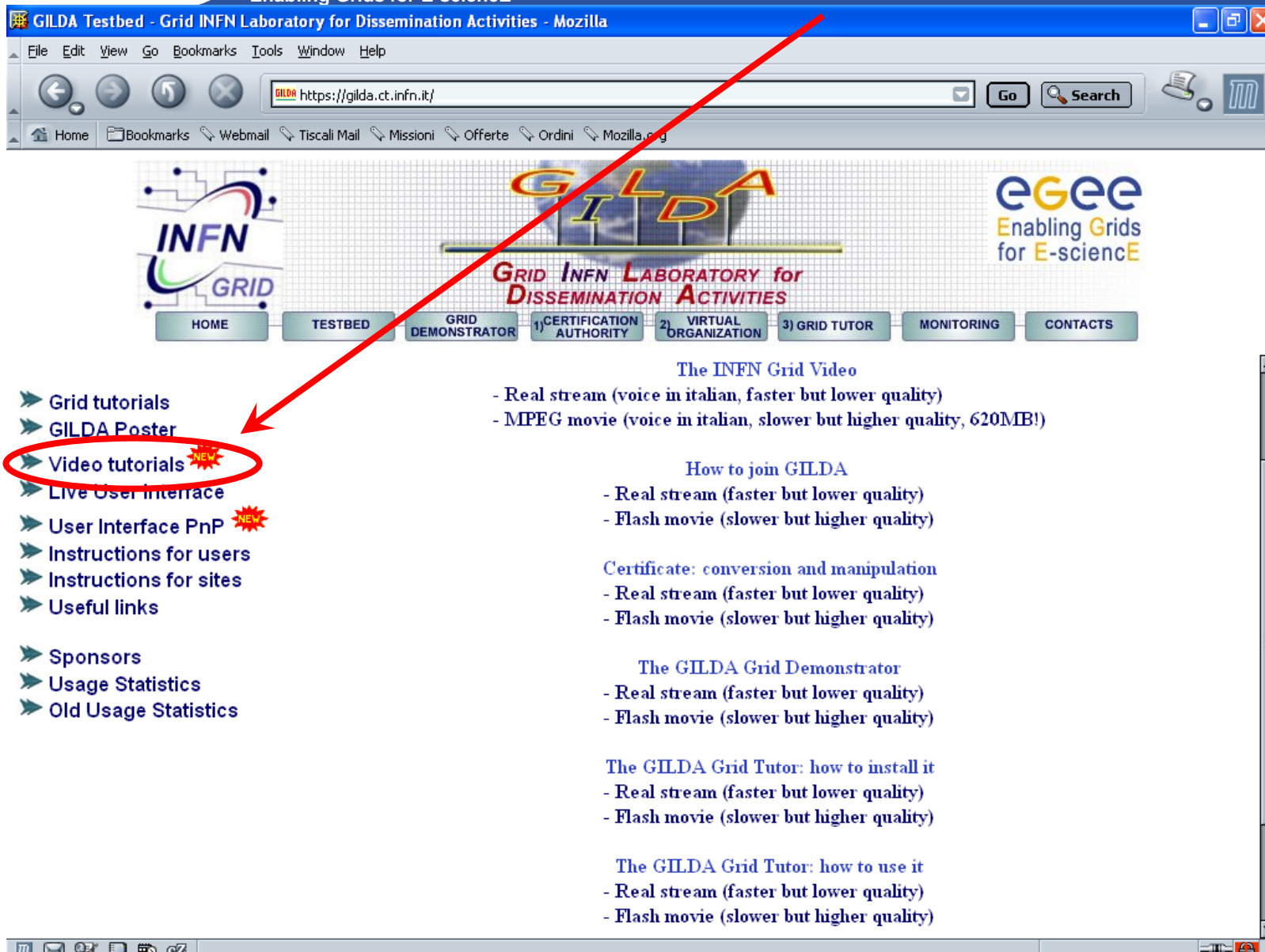
2004

Edinburgh, 7 April 2004, [slides](#), [pictures](#)
 Tunis, 22-23 April 2004, [pictures](#)
 Edinburgh, 26-28 April 2004, [slides](#), [pictures](#)
 CERN, 17-19 May 2004, [pictures](#)
 Catania, 24-25 May 2004, [home page](#), [pictures](#)
 Dubna, 29 June - 2 July 2004, [agenda](#)
 Edinburgh, 6 July 2004, [home page](#)
 Catania, 14-16 July 2004, [home page](#), [pictures](#)
 Vico Equense, 19 July 2004, [slides](#), [pictures](#)
 Vico Equense, 6-10 September 2004, [home page](#)
 Catania, 4-8 October 2004, [home page](#), [agenda](#)
 Vilnius, 5-6 October 2004, [agenda](#)
 London, 6 October 2004
 Madrid, 6-7 October 2004, [agenda](#)
 Heidelberg, 11-14 October 2004
 CERN, 16 October 2004
 Prague, 26 October 2004, [home page](#)
 Warsaw, 4-6 November 2004, [home page](#), [agenda](#)
 Lyon, 9-10 November 2004, [agenda](#)
 The Hague, 15-17 November 2004, [pictures](#)
 Merida, 15-20 November 2004, [home page](#), [agenda](#),
[slides](#), [pictures](#)
 Tunis, 20 November 2004
 Rio de Janeiro, 22-23 November 2004, [home page](#),
[agenda](#), [pictures](#)
 The Hague, 24 November 2004, [agenda](#)
 CERN, 29-30 November 2004, [agenda](#)
 Kosice, 30 November - 1 December 2004, [agenda](#)
 Tunis, 6-7 December 2004
 Bochum, 7-10 December 2004, [home page](#), [agenda](#)
 Edinburgh, 8 December 2004, [home page](#)
 Istanbul, 9-10 December 2004, [agenda](#), [slides](#), [pictures](#)
 Shanghai, 9-10 December 2004, [agenda](#)
 Aurillac, 13-14 December 2004
 Prague, 16 December 2004, [home page](#), [pictures](#)
 Tel Aviv, 22-23 December 2004, [agenda](#), [pictures](#)

2005

CERN, 13 January 2005, [agenda](#)
 Torino, 18-19 January 2005, [home page](#), [agenda](#)
 CERN, 20 January 2005, [agenda](#)
 CERN, 2-4 February 2005, [agenda](#)
 Roma, 3 February 2005, [home page](#), [agenda](#), [pictures](#)
 Sydney, 3-4 February 2005, [home page](#)
 CERN, 9-11 February 2005, [agenda](#)
 Amsterdam, 14-16 February 2005, [home page](#)
 Trento, 23-25 February 2005, [home page](#), [agenda](#)
 Amsterdam, 28 February - 1 March 2005, [home page](#)
 Julich, 9 March 2005,
 Clermont-Ferrand, 9-31 March 2005, [agenda](#)
 Vienna, March-August 2005
 Hamburg, 23-24 March 2005, [home page](#), [agenda](#)
 Ula-Merida, 31 March-1 April 2005, [agenda](#)
 Zilina, 4 April 2005, [home page and agenda](#)
 Edinburgh, 9-13 May 2005, [home page and agenda](#)
 St. Augustin, 25 May 2005, [home page and agenda](#)
 Catania, 13-15 June 2005, [home page](#), [agenda](#), [pictures](#)
 Valencia, 14-16 June 2005, [home page](#), [agenda](#)
 Lyon, 17 June 2005, [home page and agenda](#)
 Bratislava, 27-30 June 2005, [agenda](#)
 Karlsruhe, 8 July 2005, [home page and agenda](#)
 Vico Equense, 10-22 July 2005, [home page](#), [agenda](#)
 Budapest, 11-16 July 2005, [home page](#), [agenda](#)
 Clermont-Ferrand, 25-27 July 2005, [home page](#), [agenda](#)
 Madrid, 26-27 July 2005, [home page](#), [agenda](#)
 Swansea, 6 August 2005, [home page and agenda](#)
 Taipei, 22-23 August 2005, [home page and agenda](#)
 CERN, 24 August 2005, [home page and agenda](#)
 Tokyo, 25-26 August 2005, [home page and agenda](#)
 Seoul, 29-30 August 2005, [home page and agenda](#)
 Clermont-Ferrand, 05-07 September 2005, [home page](#),
[agenda](#)
 Lausanne, 5-9 September 2005, [home page and agenda](#)
 Saint-Malo, 12-15 September 2005, [home page](#), [agenda](#)
 Karlsruhe, 26-30 September 2005, [home page](#), [agenda](#)
 Raanana, 28-29 September 2005, [home page](#), [agenda](#)
 London, 6 October 2005, [home page and agenda](#)
 Sophia Antipolis, 10-14 October 2005, [home page](#),
[agenda](#)





Grid tutorials

- GILDA Poster
- **Video tutorials** NEW
- Live User Interface
- User Interface PnP NEW
- Instructions for users
- Instructions for sites
- Useful links

Sponsors

- Usage Statistics
- Old Usage Statistics

The INFN Grid Video

- Real stream (voice in italian, faster but lower quality)
- MPEG movie (voice in italian, slower but higher quality, 620MB!)

How to join GILDA

- Real stream (faster but lower quality)
- Flash movie (slower but higher quality)

Certificate: conversion and manipulation

- Real stream (faster but lower quality)
- Flash movie (slower but higher quality)

The GILDA Grid Demonstrator

- Real stream (faster but lower quality)
- Flash movie (slower but higher quality)

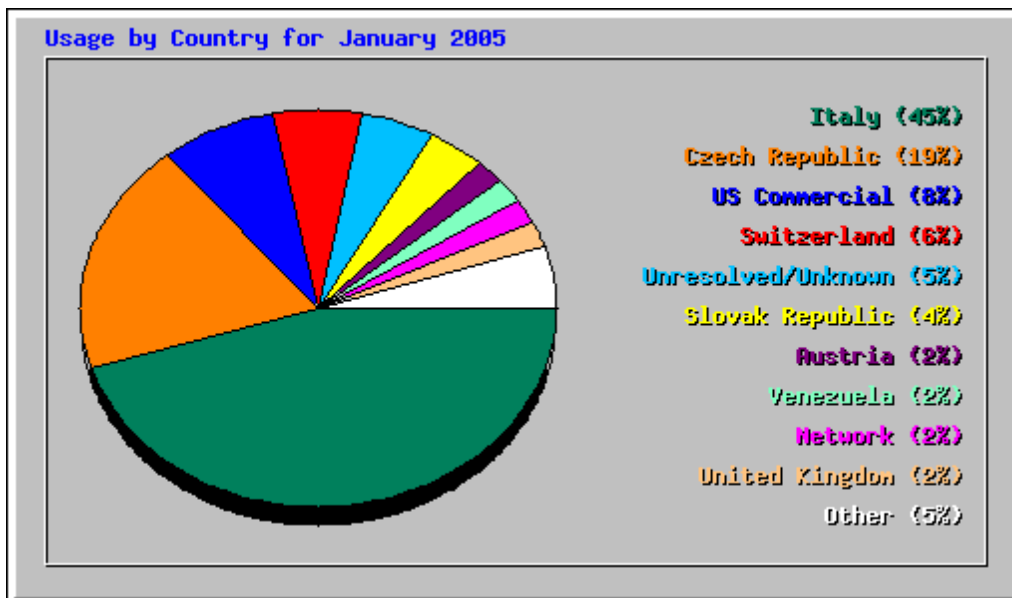
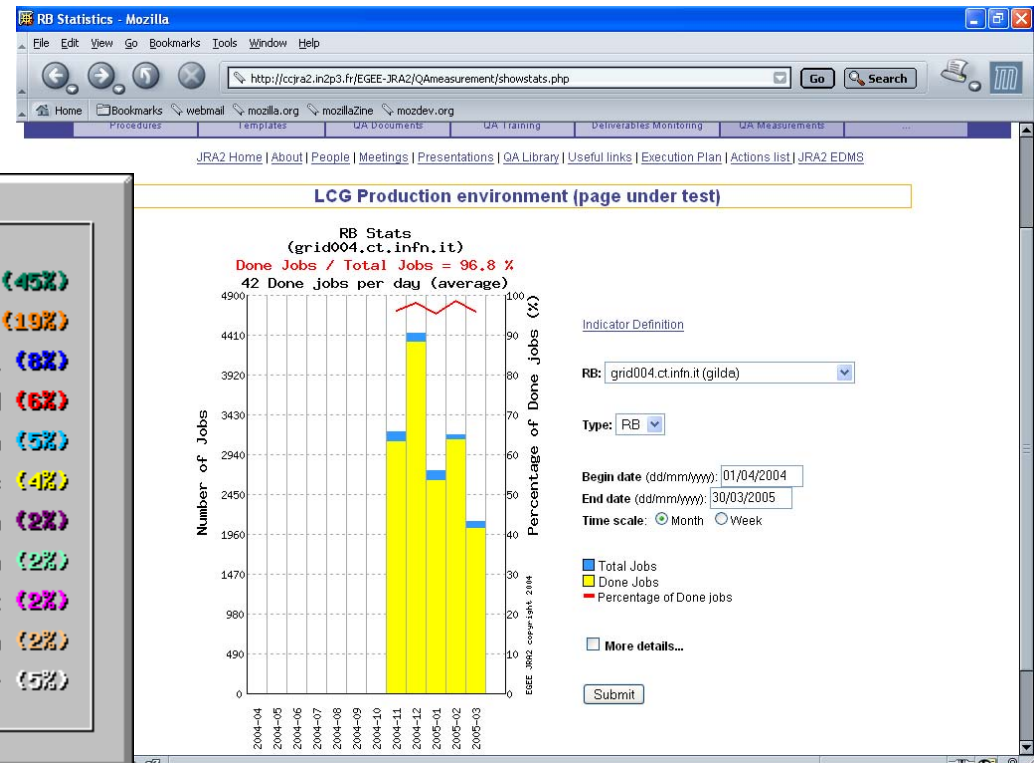
The GILDA Grid Tutor: how to install it

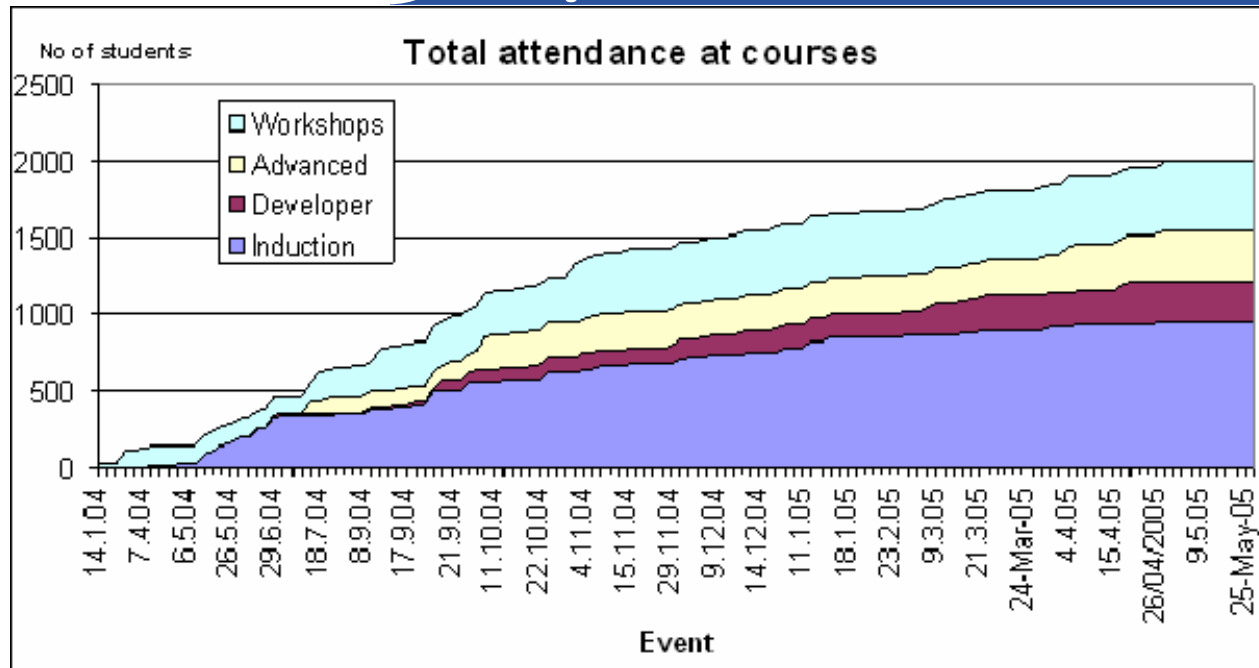
- Real stream (faster but lower quality)
- Flash movie (slower but higher quality)

The GILDA Grid Tutor: how to use it

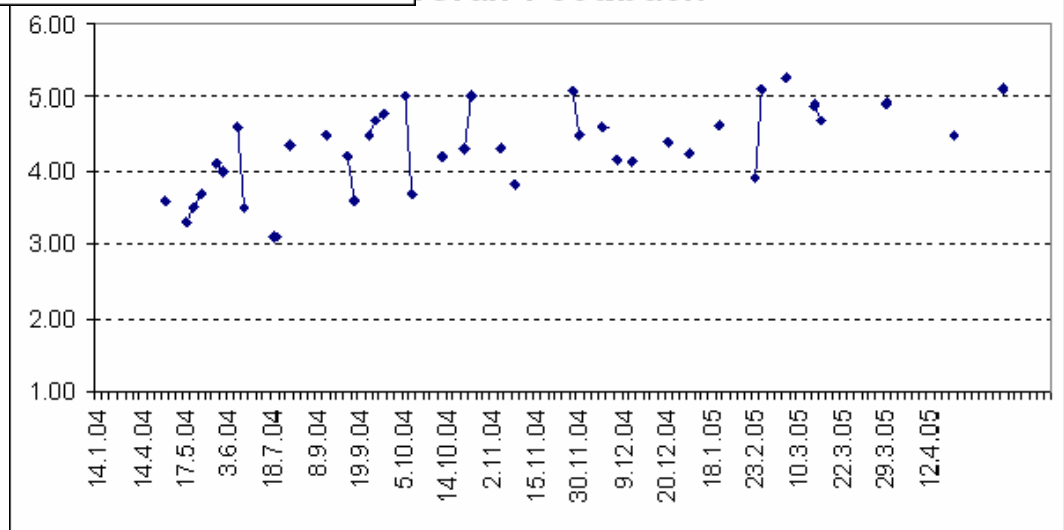
- Real stream (faster but lower quality)
- Flash movie (slower but higher quality)

- 15 sites in 3 continents
- > 2300 certificates issued, >15% renewed at least once
- > 75 tutorials and demos performed in 15 months
- > 50 jobs/day on the average
- Job success rate above 80%
- > 950,000 hits (> 46,000 visits) on (of) the web site from 10's of different countries
- > 0.6 TB of videos and UI's downloaded from the web site





Overall Feedback



- **7 Virtual Organizations supported:**
 - Biomedicine (Biomed)
 - Earth Science Academy (ESR)
 - Earth Science Industry (CGG)
 - Astroparticle Physics (MAGIC)
 - Computational Chemistry (GEMS)
 - Grid Search Engines (GRACE)
 - Astrophysics (PLANCK)
- **Development of complete interfaces with GENIUS for 3 Biomed Applications: GATE, hadronTherapy, and Friction/Arlecione**
- **Development of complete interfaces with GENIUS for 4 Generic Applications: EGEODE (CGG), MAGIC, GEMS, and CODESA-3D (ESR) (successfull demos of EGEODE and GEMS at EGEE review)**
- **Development of complete interfaces with GENIUS for 16 demonstrative applications available on the GILDA Grid Demonstrator (<https://grid-demo.ct.infn.it>)**
- **Development of complete interface with CLI for NEMO**

- **The EGEE middleware:**
 - Is exiting prototyping phase and entering real production phase (LHC first real data are only 2 years away from now!)
 - Implements a full and complete stack of grid services that can be used all together or separately at user's discretion
 - Closely follow the standardization process going in GGF and other for a
- **GILDA is a real virtual laboratory for dissemination of grid computing:**
 - It is a “de facto” standard t-Infrastructure adopted both by EGEE and some forthcoming EU-FP6 projects (EELA, EUCHINAGRID, EUMEDGRID, **ICEAGE**)
 - It is a complete suite of grid elements (test-bed, CA, VO, monitoring system, web portal, **live user interface, user interface plug&play**) and applications fully dedicated to dissemination purposes and pre-orting of new applications to EGEE Infrastructure
 - GILDA runs latest production (stable) version of both the LCG grid middleware but it is also early adopting gLite in order to make the transition to the new middleware smoother and easier