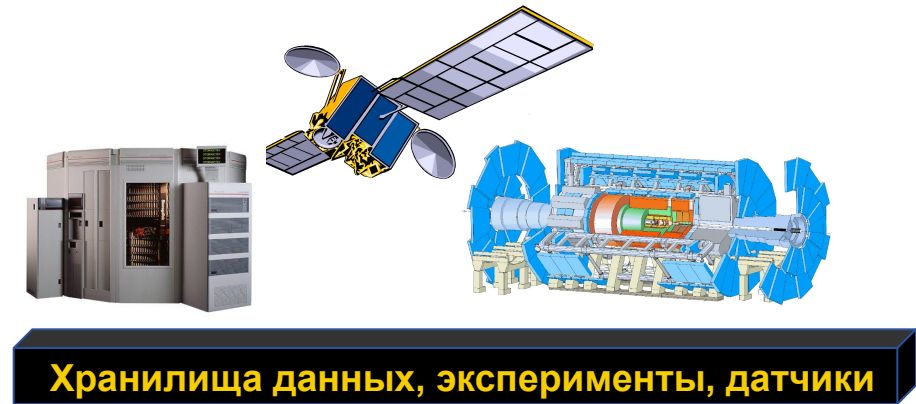
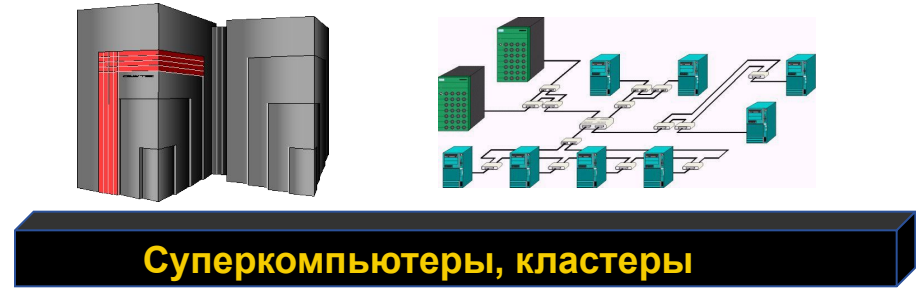


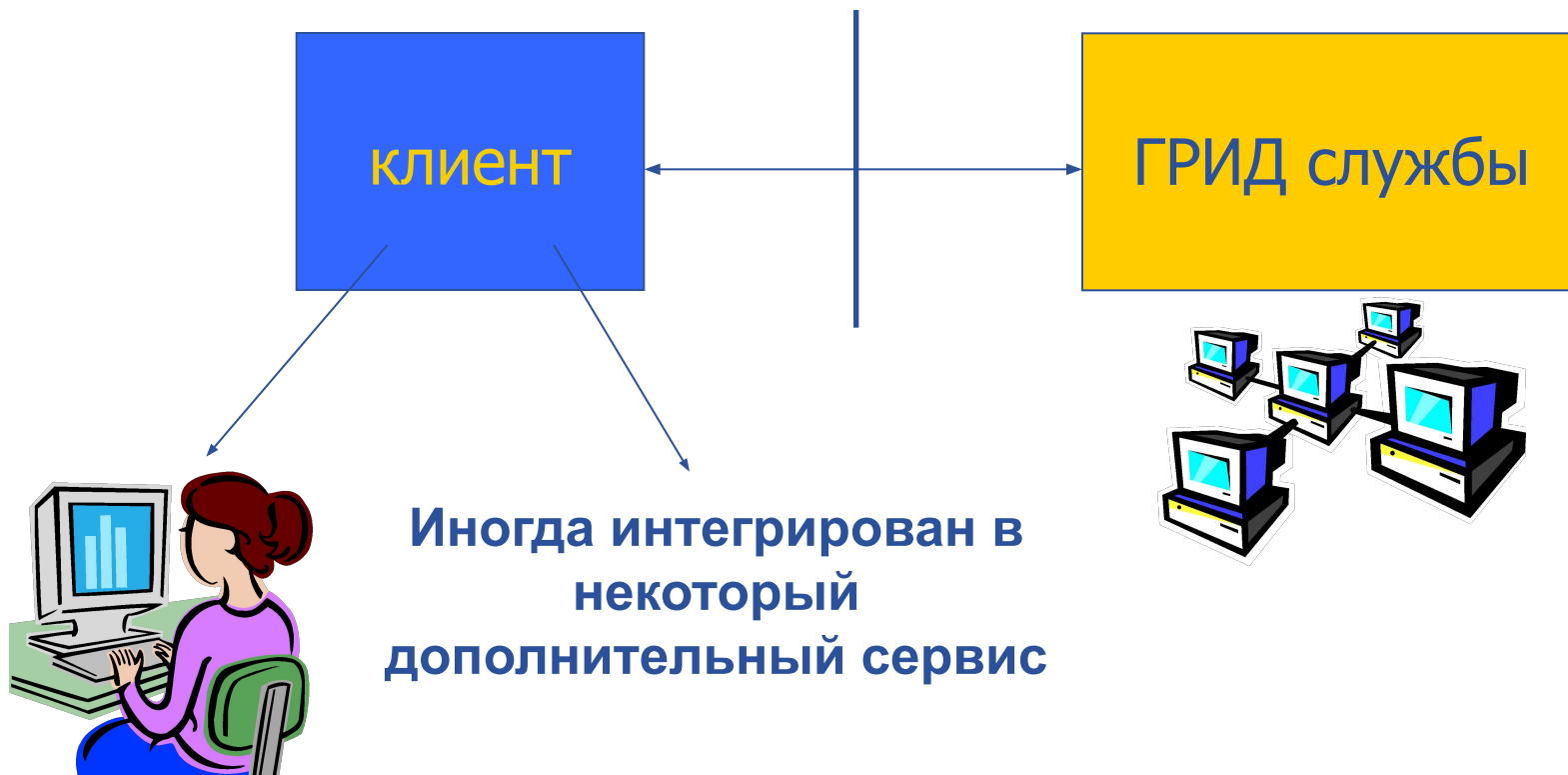
GILDA Grid Demonstrator

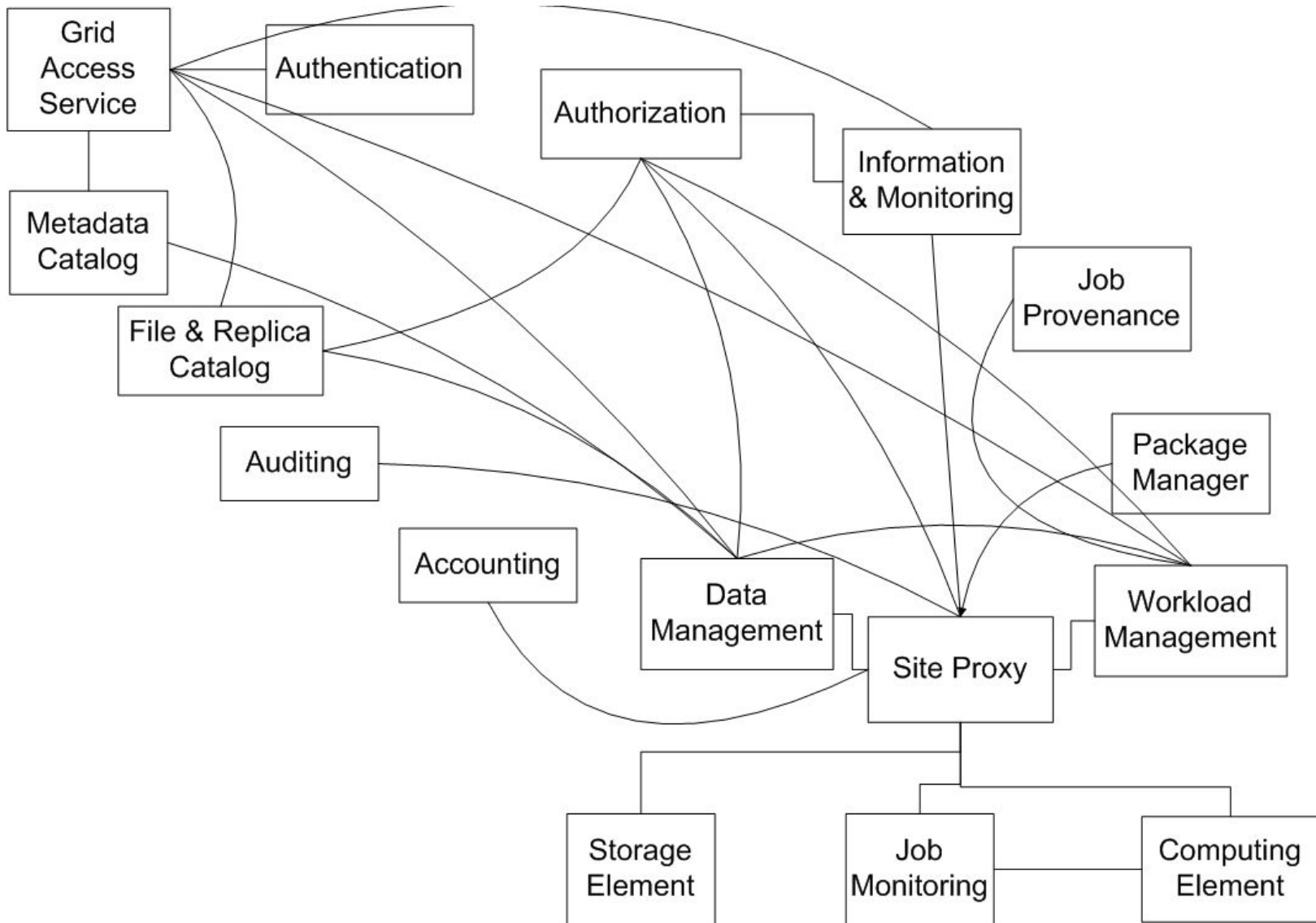
Олешко Сергей

Петербургский институт ядерной физики РАН



- ППО ГРИД – это множество программных ГРИД служб
- ГРИД службы более-менее стандартизованы, т.е. имеют стандартизованные интерфейсы и используют стандартные технологии
- Они могут быть доступны множеству клиентов





- **ГРИД службы используют шифрование:**
 - Вы должны получить сертификат от центра сертификации
 - Вы должны быть зарегистрированы в Виртуальной Организации (ГРИД службы доступны только для членов ВО.)
 - Вы должны сгенерировать временный сертификат
- **ГРИД клиенты – это достаточно низкоуровневые программные средства**
 - Интерфейс командной строки
 - Платформозависимость (как правило Linux)
 - Много параметров



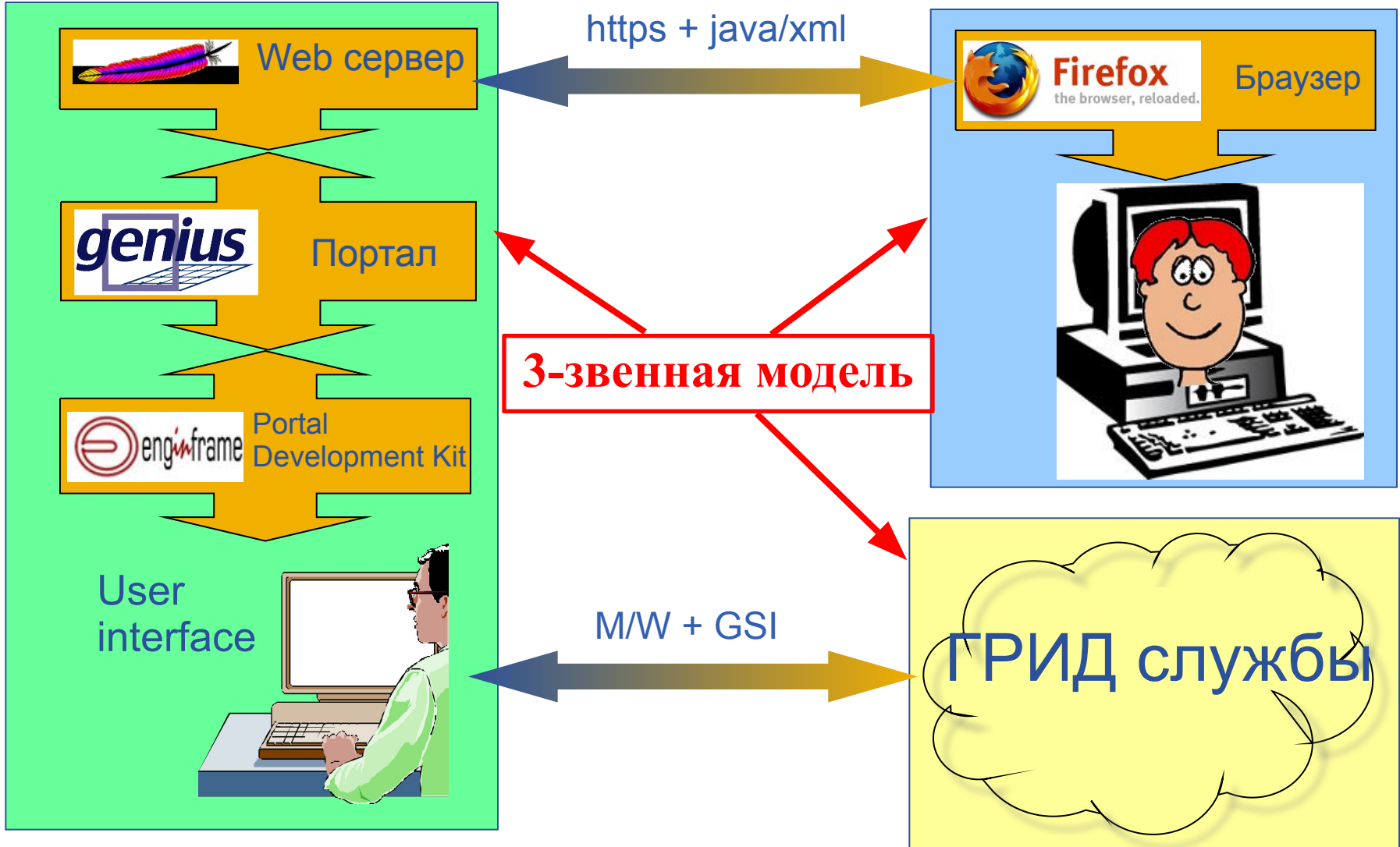
- Он может быть доступен отовсюду и при помощи “чего угодно” (ПК, ноутбук, КПК, мобильный телефон).
- Он может использовать один и тот же пользовательский интерфейс для доступа к различным службам.
- Он должен обеспечивать “избыточную безопасность” на всех уровнях: 1) безопасность передачи данных по web, 2) безопасность пользовательских параметров доступа, 3) безопасность пользовательской аутентификации, 4) безопасность на уровне виртуальной организации.
- ГРИД службы должны быть доступны “по одному нажатию на кнопку мышки”.
- Пользовательский интерфейс должен быть понятен и дружелюбен к пользователю.

Grid Enabled web eNvironment for site Independent User job Submission

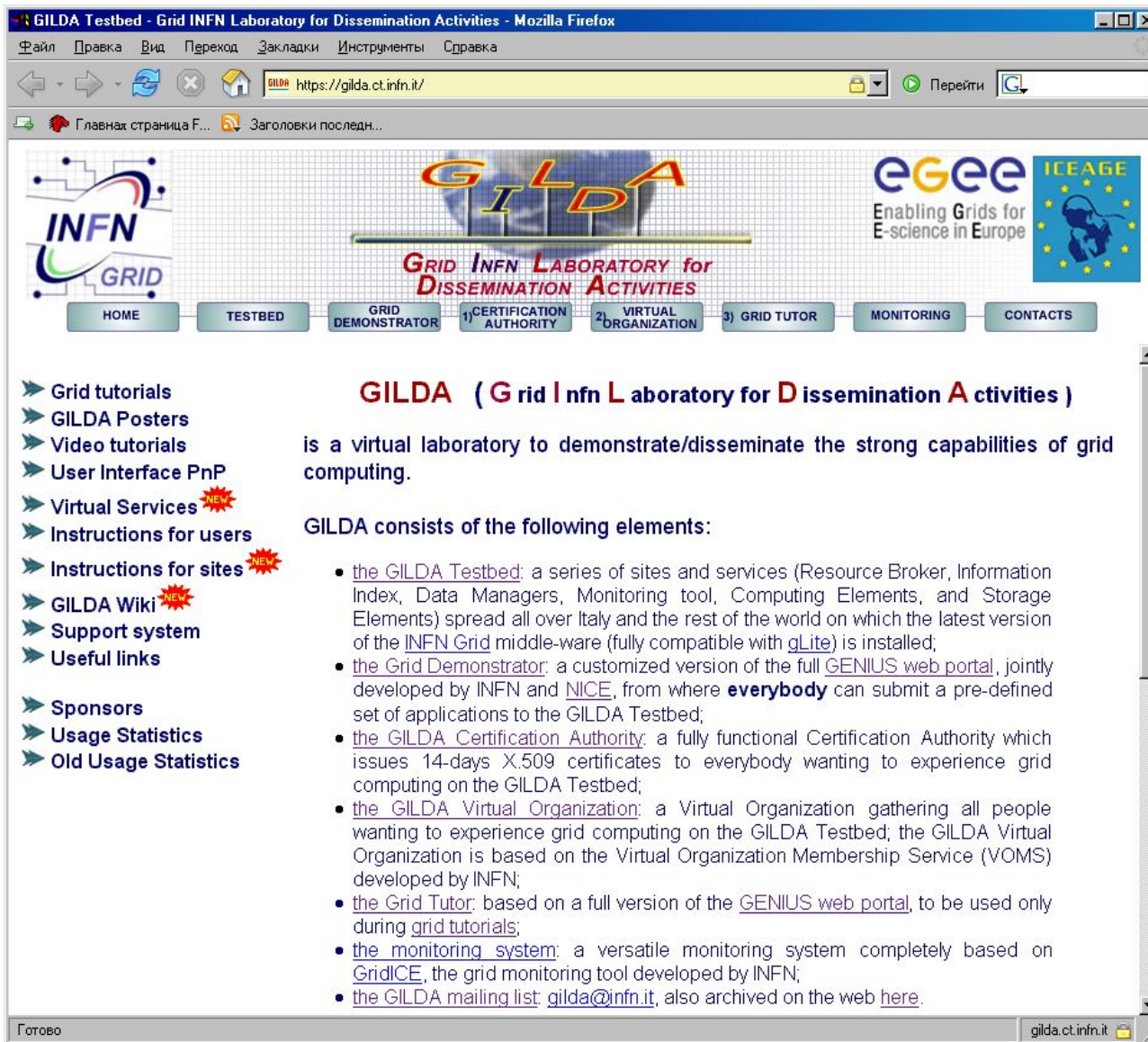
Существует несколько версий портала:



- **GENIUS – полная версия:**
<https://genius.ct.infn.it>
- **Grid Demonstrator – открытая “для всех” 24/7 версия:**
[https://glite-demo.ct.infn.it /](https://glite-demo.ct.infn.it/)
- **Grid Tutor – версия, адаптированная для обучения и тренинга:**
<https://glite-tutor.ct.infn.it/>



- Проблема: Web сервер, а значит и весь портал запускается с наинизшим уровнем привилегий. Каким же образом он сможет запускать задания для пользователя?
- Наилучший выход – расширение системы делегирования GSI (Grid Security Infrastructure) таким образом, чтобы пользователь мог делегировать права на запуск заданий порталу.
- Сервис MyProxu обеспечивает такое расширение следующим образом:
 - временно сохраняет пользовательские имя/пароль.
 - запускает прокси от имени пользователя.
 - поддерживает отдельный пароль для портала.



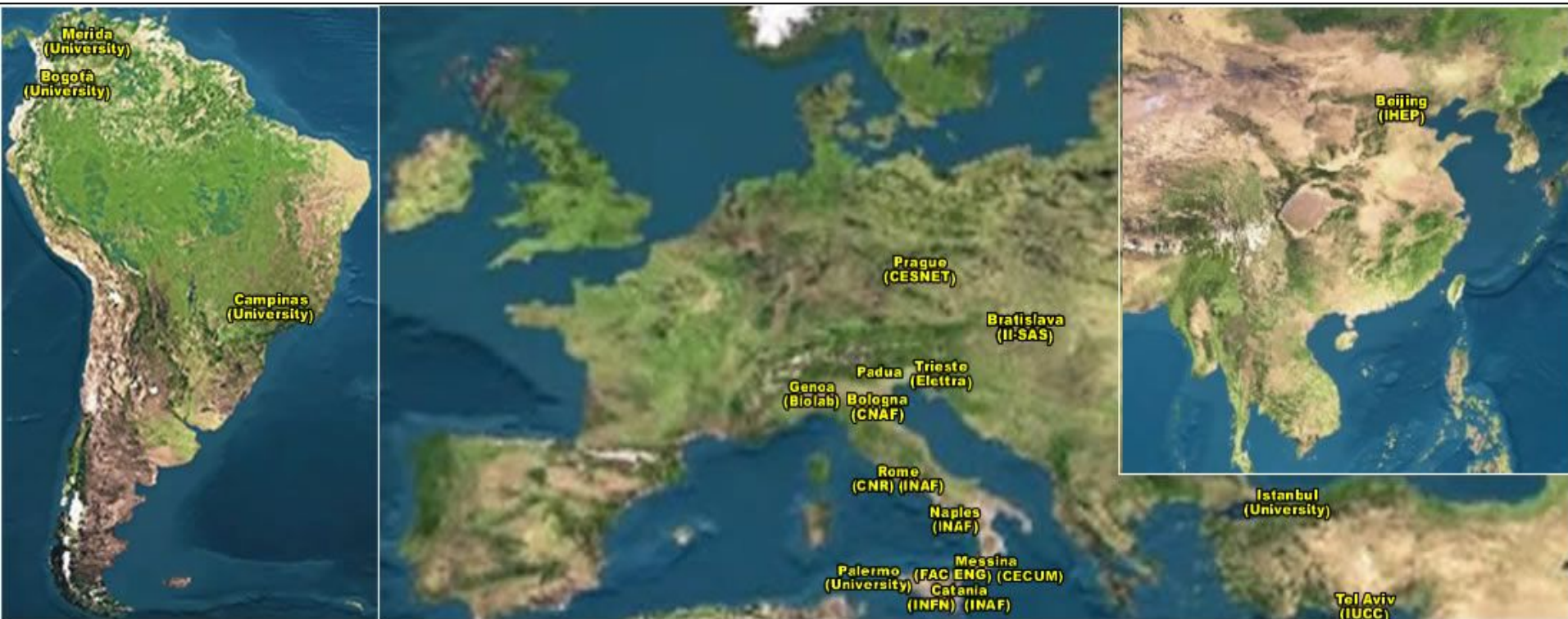
GILDA (Grid INFN Laboratory for Dissemination Activities)

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 the [INFN Grid](#) middle-ware (fully compatible with [gLite](#)) is 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; the GILDA Virtual Organization is based on 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](#).

- **GILDA Testbed** - набор сайтов с установленным ППО LCG/gLite.
- **Grid Demonstrator** - веб-интерфейс GENIUS, позволяющий работать с определенным набором приложений.
- **GILDA CA** - центр сертификации, выдающий 14-дневные сертификаты для работы с GILDA.
- **GILDA VO** - виртуальная организация, объединяющая всех пользователей GILDA.
- **Grid Tutor** - веб-интерфейс GENIUS, используемый для демонстрации возможностей технологии Грид.
- **Monitoring System** - система мониторинга для GILDA Testbed.



20 сайтов на 3 континентах !



The screenshot shows a Mozilla Firefox browser window displaying the GILDA Grid Demonstrator web portal. The browser's address bar shows the URL <https://glite-demo.ct.infn.it/>. The page features a navigation menu on the left with categories like File, Security, Data, Info, and Monitoring. The main content area displays a welcome message: "Welcome to the **GILDA** Grid Demonstrator powered by **GENIUS Portal** based on **GLite**". Below this, there is a "Credits" section and a note about browser compatibility. The footer includes a copyright notice for NICE S.r.l. and the date "Mon 3 July 2006".

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

GLite

[Credits](#)

This portal is best viewed with Mozilla 1.7.12 or higher.
Netscape (4.79, 4.80, 6 or 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.

powered by


Last update: **Mon 3 July 2006**

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+

- Не требуется сертификат
- Доступ через браузер
- Предопределённые имя/пароль (не требуется предварительная регистрация)

-

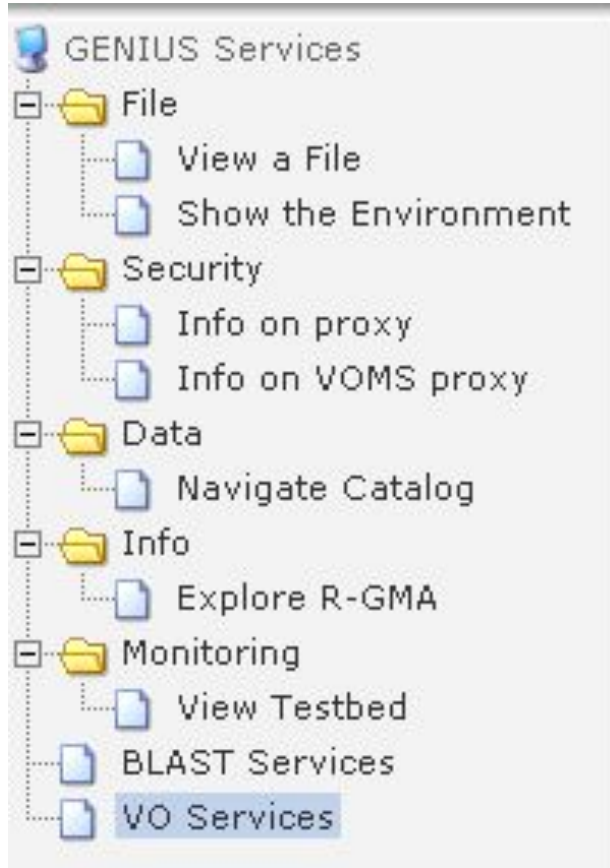
- Работа только с заранее подготовленными задачами и сервисами неполной функциональности (демо-режим)
- Ограниченное время действия MyProxy сертификата

Login to the GRID

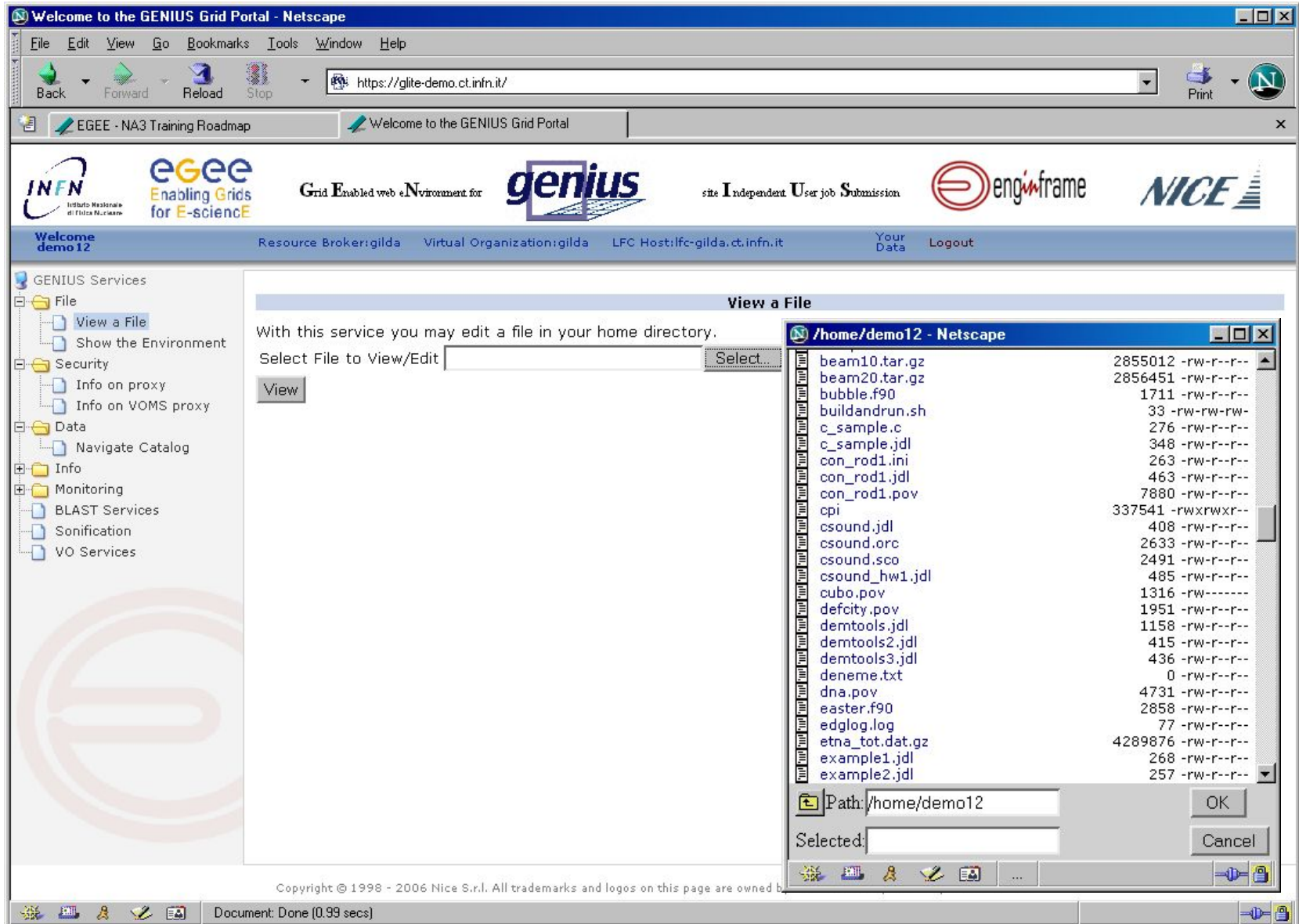
Username:

MyProxy Passphrase:

Validity (hours):



- **Просмотр файлов в HOME директории демо-пользователя**
- **Просмотр переменных окружения**
- **Навигация в пределах директории виртуальной организации GILDA (просмотр и скачивание файлов)**
- **Ссылка на web интерфейс некоторых проектов**








Welcome to the GENIUS Grid Portal - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop Print

EGEE - NA3 Training Roadmap Welcome to the GENIUS Grid Portal

Welcome demo12 Resource Broker:gilda Virtual Organization:gilda LFC Host:lfc-gilda.ct.infn.it Your Data Logout

GENIUS Services

- File
 - View a File
 - Show the Environment
- Security
 - Info on proxy
 - Info on VOMS proxy
- Data
 - Navigate Catalog
- Info
- Monitoring
- BLAST Services
- Sonification
- VO Services

View a File

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

Select File to View/Edit

/home/demo12 - Netscape

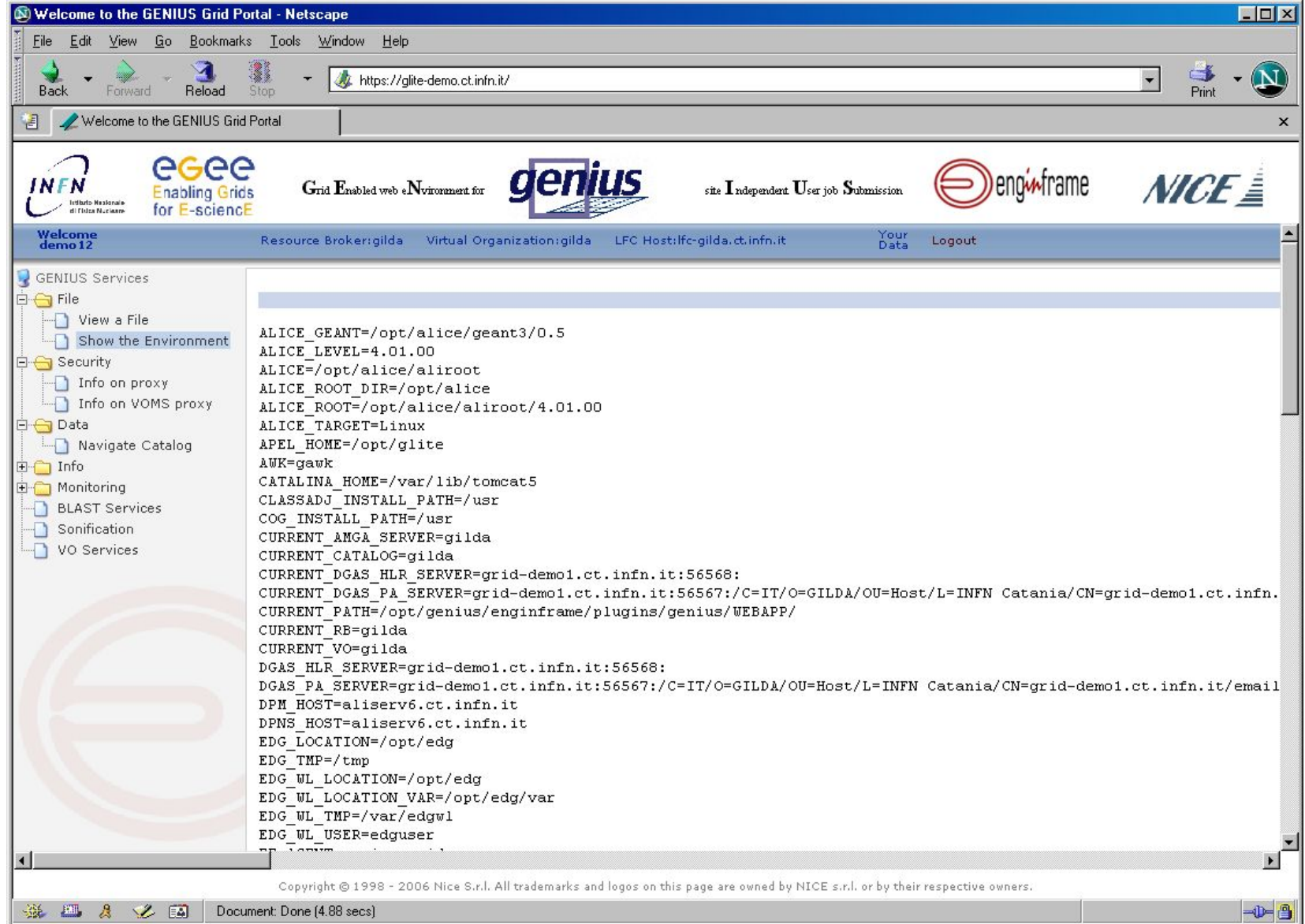
beam10.tar.gz	2855012	-rw-r--r--
beam20.tar.gz	2856451	-rw-r--r--
bubble.f90	1711	-rw-r--r--
buildandrun.sh	33	-rw-rw-rw-
c_sample.c	276	-rw-r--r--
c_sample.jdl	348	-rw-r--r--
con_rod1.ini	263	-rw-r--r--
con_rod1.jdl	463	-rw-r--r--
con_rod1.pov	7880	-rw-r--r--
cpi	337541	-rwxrwxr--
csound.jdl	408	-rw-r--r--
csound.orc	2633	-rw-r--r--
csound.sco	2491	-rw-r--r--
csound_hw1.jdl	485	-rw-r--r--
cubo.pov	1316	-rw-----
defcity.pov	1951	-rw-r--r--
demtools.jdl	1158	-rw-r--r--
demtools2.jdl	415	-rw-r--r--
demtools3.jdl	436	-rw-r--r--
deneme.txt	0	-rw-r--r--
dna.pov	4731	-rw-r--r--
easter.f90	2858	-rw-r--r--
edglog.log	77	-rw-r--r--
etna_tot.dat.gz	4289876	-rw-r--r--
example1.jdl	268	-rw-r--r--
example2.jdl	257	-rw-r--r--

Path: /home/demo12

Selected:

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Document: Done (0.99 secs)








Welcome to the GENIUS Grid Portal - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop <https://glite-demo.ct.infn.it/> Print

Welcome to the GENIUS Grid Portal

Grid Enabled web eNvironment for **genius** site Independent User job Submission

Welcome demo12 Resource Broker:gilda Virtual Organization:gilda LFC Host:lfc-gilda.ct.infn.it Your Data Logout

GENIUS Services

- File
 - View a File
 - Show the Environment
- Security
 - Info on proxy
 - Info on VOMS proxy
- Data
 - Navigate Catalog
- Info
- Monitoring
- BLAST Services
- Sonification
- VO Services

```

ALICE_GEANT=/opt/alice/geant3/0.5
ALICE_LEVEL=4.01.00
ALICE=/opt/alice/aliroot
ALICE_ROOT_DIR=/opt/alice
ALICE_ROOT=/opt/alice/aliroot/4.01.00
ALICE_TARGET=Linux
APEL_HOME=/opt/glite
AWK=gawk
CATALINA_HOME=/var/lib/tomcat5
CLASSADJ_INSTALL_PATH=/usr
COG_INSTALL_PATH=/usr
CURRENT_AMGA_SERVER=gilda
CURRENT_CATALOG=gilda
CURRENT_DGAS_HLR_SERVER=grid-demo1.ct.infn.it:56568:
CURRENT_DGAS_PA_SERVER=grid-demo1.ct.infn.it:56567:/C=IT/O=GILDA/OU=Host/L=INFN Catania/CN=grid-demo1.ct.infn.
CURRENT_PATH=/opt/genius/enginframe/plugins/genius/WEBAPP/
CURRENT_RB=gilda
CURRENT_VO=gilda
DGAS_HLR_SERVER=grid-demo1.ct.infn.it:56568:
DGAS_PA_SERVER=grid-demo1.ct.infn.it:56567:/C=IT/O=GILDA/OU=Host/L=INFN Catania/CN=grid-demo1.ct.infn.it/email
DPM_HOST=aliserv6.ct.infn.it
DPNS_HOST=aliserv6.ct.infn.it
EDG_LOCATION=/opt/edg
EDG_TMP=/tmp
EDG_WL_LOCATION=/opt/edg
EDG_WL_LOCATION_VAR=/opt/edg/var
EDG_WL_TMP=/var/edgw1
EDG_WL_USER=edguser

```

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Document: Done [4.88 secs]

Welcome to the GENIUS Grid Portal - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop <https://gite-demo.ct.infn.it/> Print

Welcome to the GENIUS Grid Portal

Grid Enabled web eNvironment for **genius** site Independent User job Submission

Welcome demo12 Resource Broker:gilda Virtual Organization:gilda LFC Host:lfc-gilda.ct.infn.it Your Data Logout

GENIUS Services

- File
 - View a File
 - Show the Environment
- Security
 - Info on proxy
 - Info on VOMS proxy
- Data
 - Navigate Catalog**
- Info
 - Explore R-GMA
- Monitoring
 - View Testbed
- BLAST Services
- Sonification
- VO Services

Navigate Catalog

With this service you can navigate the Catalog of your Virtual Organization

Selected files on Catalog

Select... Clean

Download & View Show Details

/grid/gilda/training - Netscape

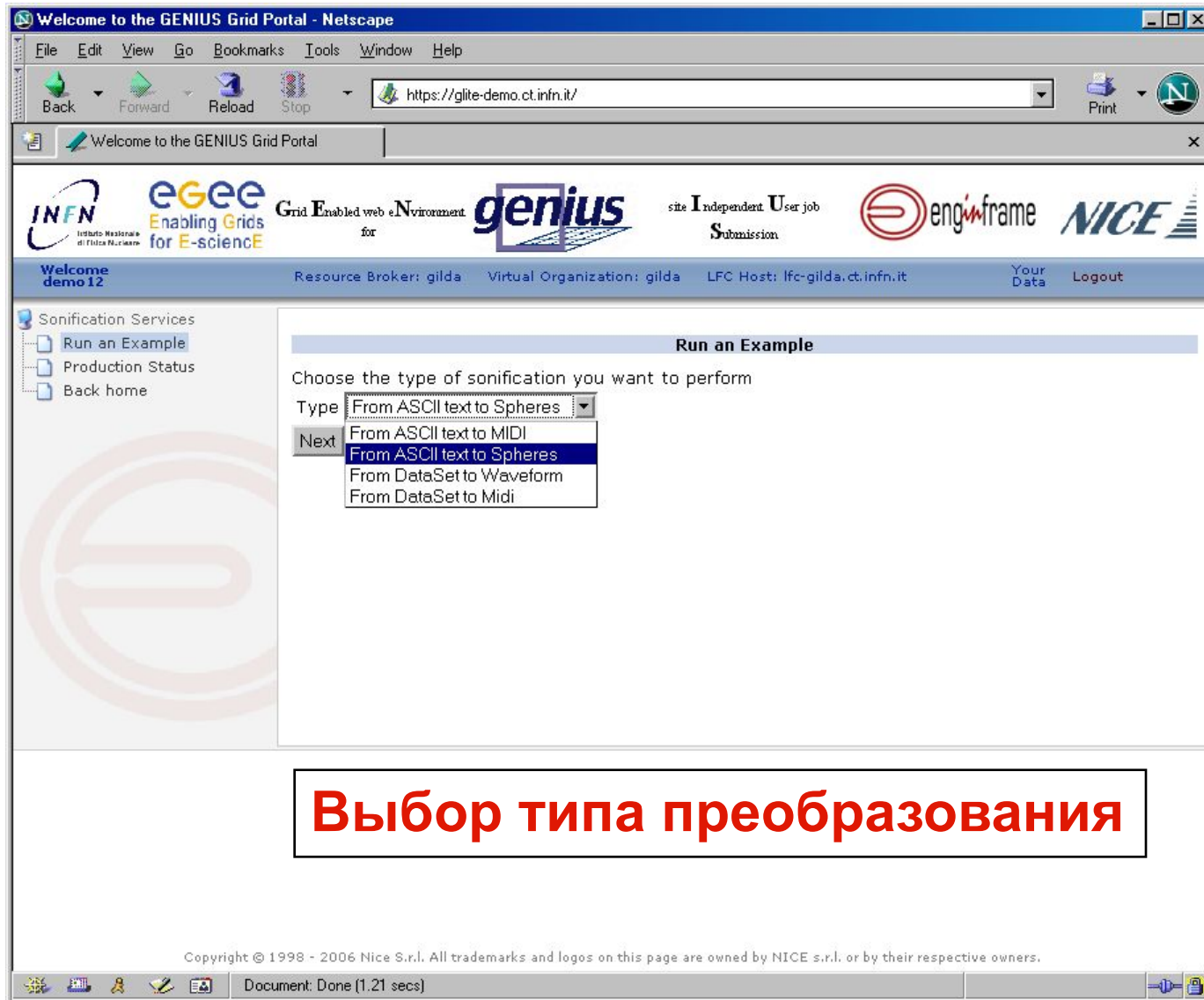
- CERN05
- cern01
- cern02
- cern03
- cern04
- cern06
- cern07
- cern08
- cern09
- cern10
- cern11
- edinburgh02
- edinburgh03
- edinburgh04
- edinburgh06
- edinburgh07
- edinburgh20
- examples

Path:/grid/gilda/training OK

Select all Unselect all Cancel

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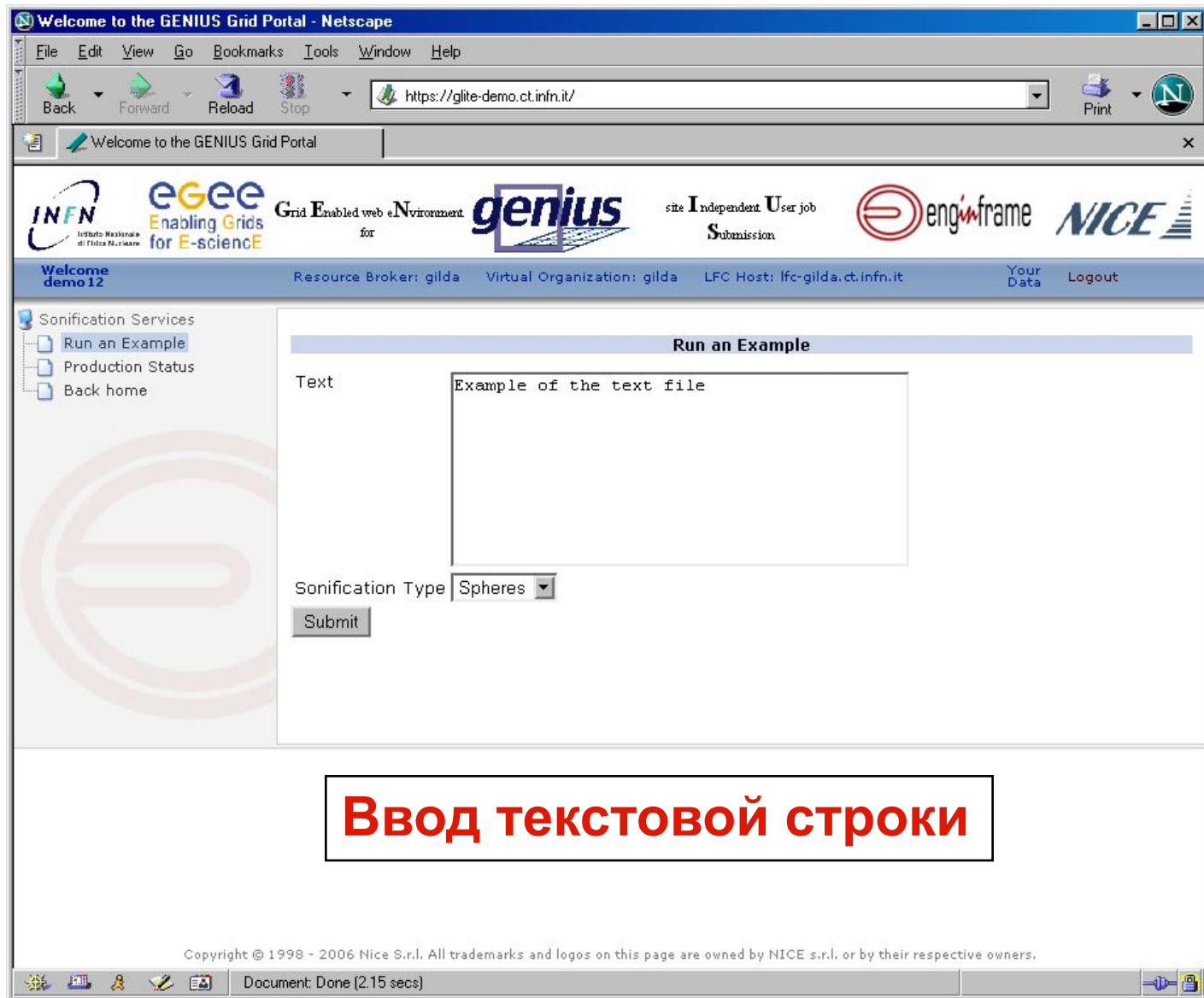
Document: Done (1.04 secs)



Run an Example
 Choose the type of sonification you want to perform
 Type:
 Next:
 From ASCII text to Spheres
 From ASCII text to MIDI
 From DataSet to Waveform
 From DataSet to Midi

Выбор типа преобразования






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 Document: Done (1.21 secs)



Welcome to the GENIUS Grid Portal

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop <https://glite-demo.ct.infn.it/> Print

Welcome demo 12 Resource Broker: gilda Virtual Organization: gilda LFC Host: lfc-gilda.ct.infn.it Your Data Logout

Sonification Services

- Run an Example
- Production Status
- Back home

Run an Example

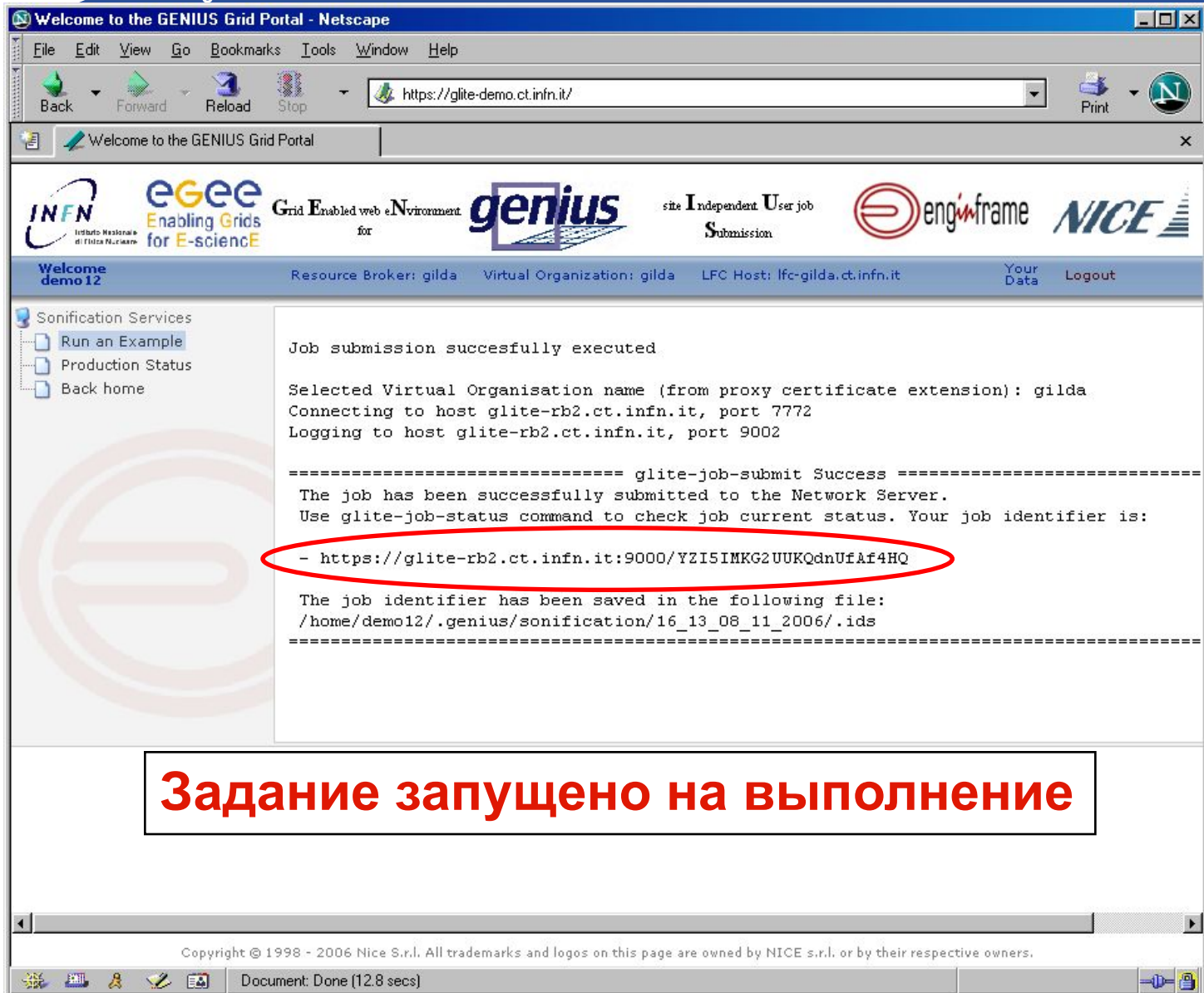
Text

Sonification Type

Ввод текстовой строки

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Document: Done (2.15 secs)








Welcome to the GENIUS Grid Portal - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop <https://glite-demo.ct.infn.it/> Print

Welcome to the GENIUS Grid Portal

Welcome demo12 Resource Broker: gilda Virtual Organization: gilda LFC Host: lfc-gilda.ct.infn.it Your Data Logout

Sonification Services

- Run an Example
- Production Status
- Back home

```

Job submission successfully executed.

Selected Virtual Organisation name (from proxy certificate extension): gilda
Connecting to host glite-rb2.ct.infn.it, port 7772
Logging to host glite-rb2.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-rb2.ct.infn.it:9000/YZISIMKG2UUKQdnUfAf4HQ

The job identifier has been saved in the following file:
/home/demo12/.genius/sonification/16_13_08_11_2006/.ids
    
```

Задание запущено на выполнение

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Document: Done (12.8 secs)

Welcome to the GENIUS Grid Portal - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop <https://glite-demo.ct.infn.it/> Print

Welcome to the GENIUS Grid Portal

Grid Enabled web Environment for **genius** site Independent User job Submission

Welcome demo 12 Resource Broker: gilda Virtual Organization: gilda LFC Host: lfc-gilda.ct.infn.it Your Data Logout

Sonification Services

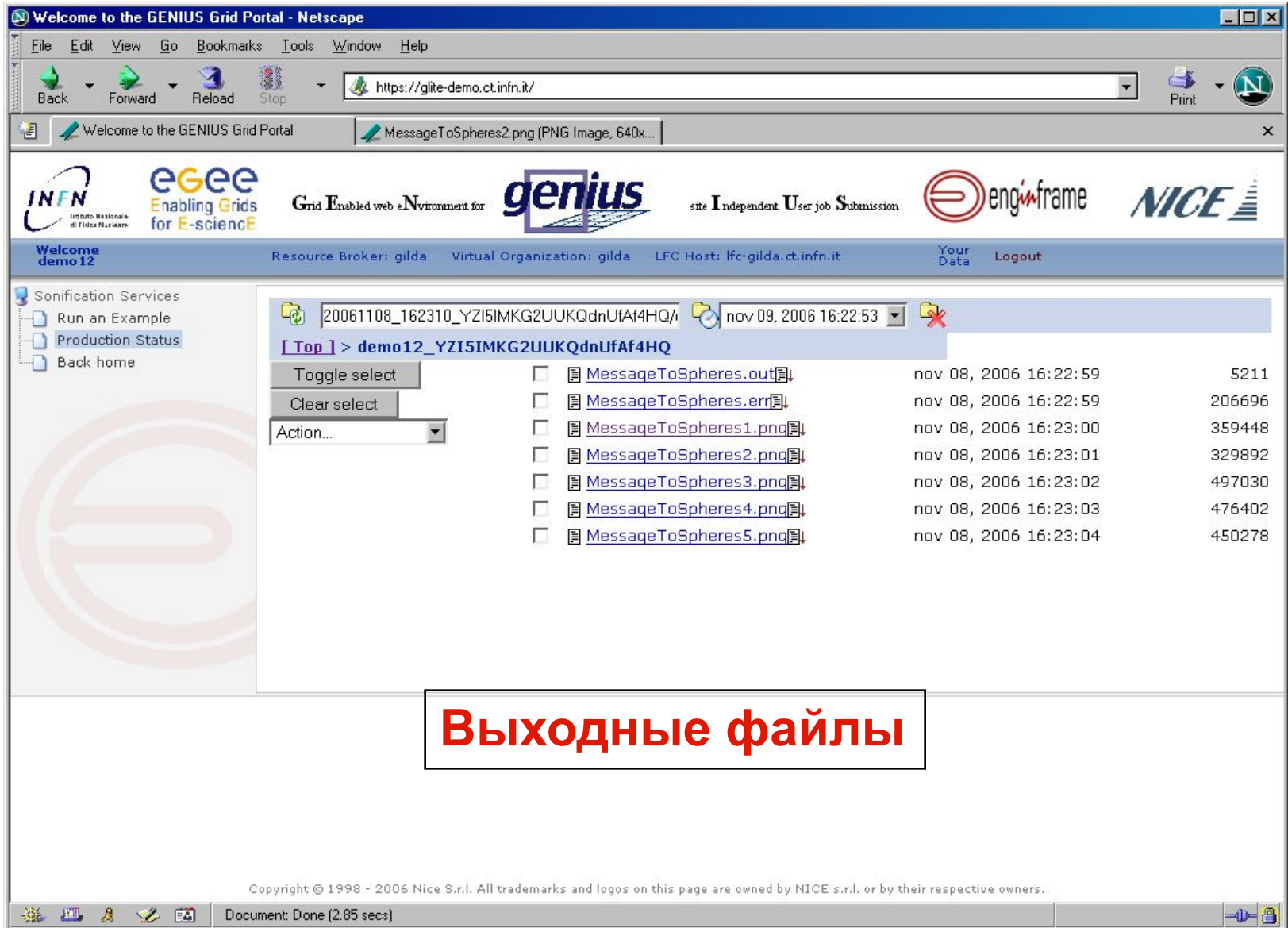
- Run an Example
- Production Status
- Back home

Job Queue						
#	Globus JobID	Last Update Time	Status	Destination	Exit Code	
5	YZI5IMKG2UUKQdnUfAf4HQ	2006 Nov 8 16:13	Done	grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-short	0	
4	1694IFgTgR6sNOBHYYtwpw	2006 Sep 22 16:38	Done GET OUTPUT	gildace01.roma3.infn.it:2119/jobmanager-lcgpbs-short		
3	rHTTlzgWGGbDjZmAzQVvXA	2006 Sep 22 16:25	Cleared	trigrd-ce00.unime.it:2119/jobmanager-lcgpbs-short		
2	4NwGoglc_trUOqyuZ7DWJg	2006 Sep 22 16:23	Aborted	grid010.ct.infn.it:2119/jobmanager-lcgpbs-short		
1	UX2AozCvOt1EoEljXPrnJw	2006 Sep 22 16:21	Aborted	grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-short		

Задание выполнено, результат доступен

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Transferring data from glite-demo.ct.infn.it...



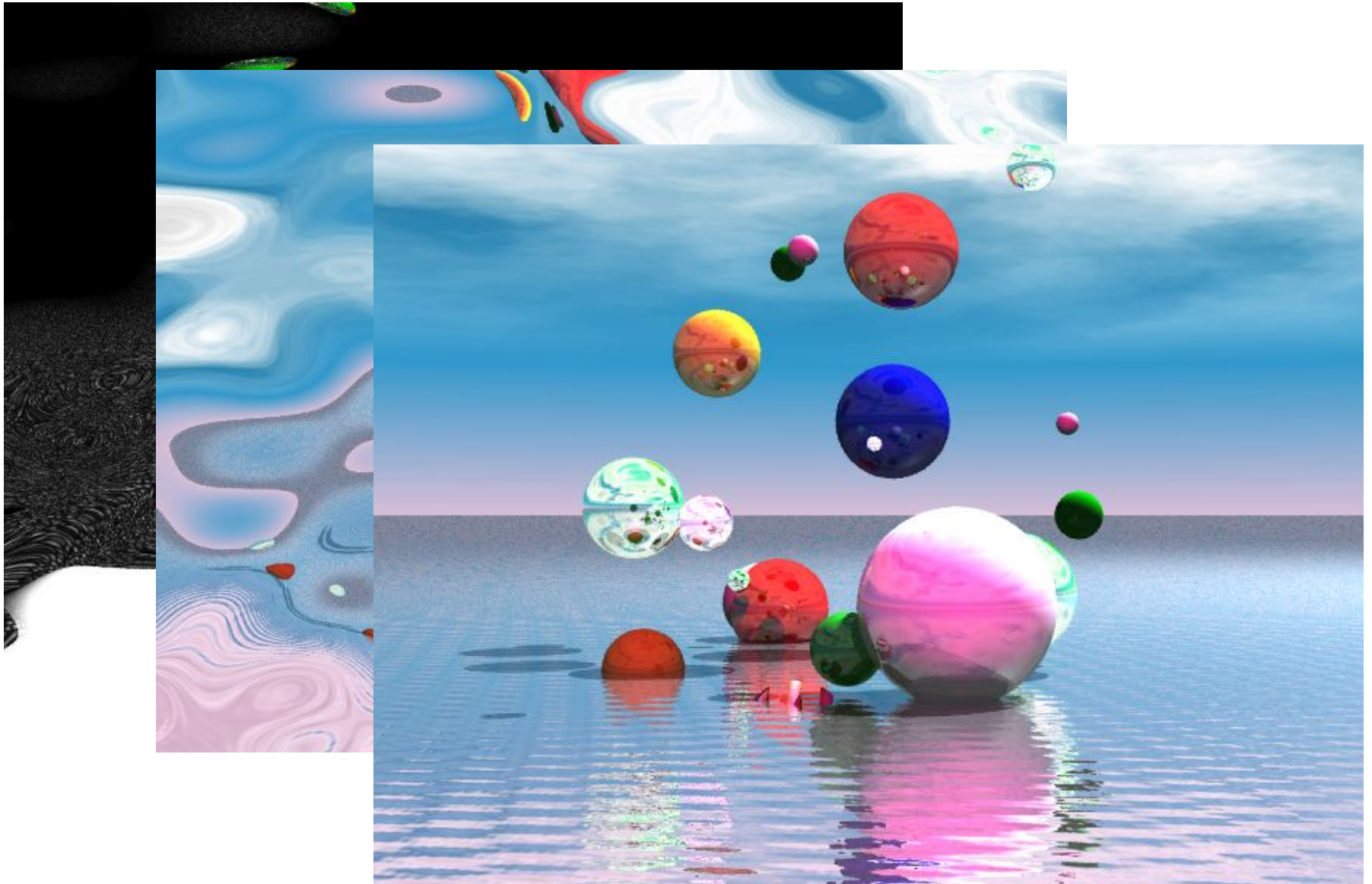
20061108_162310_YZ15IMKG2UUKQdnUfAf4HQ/ nov 09, 2006 16:22:53

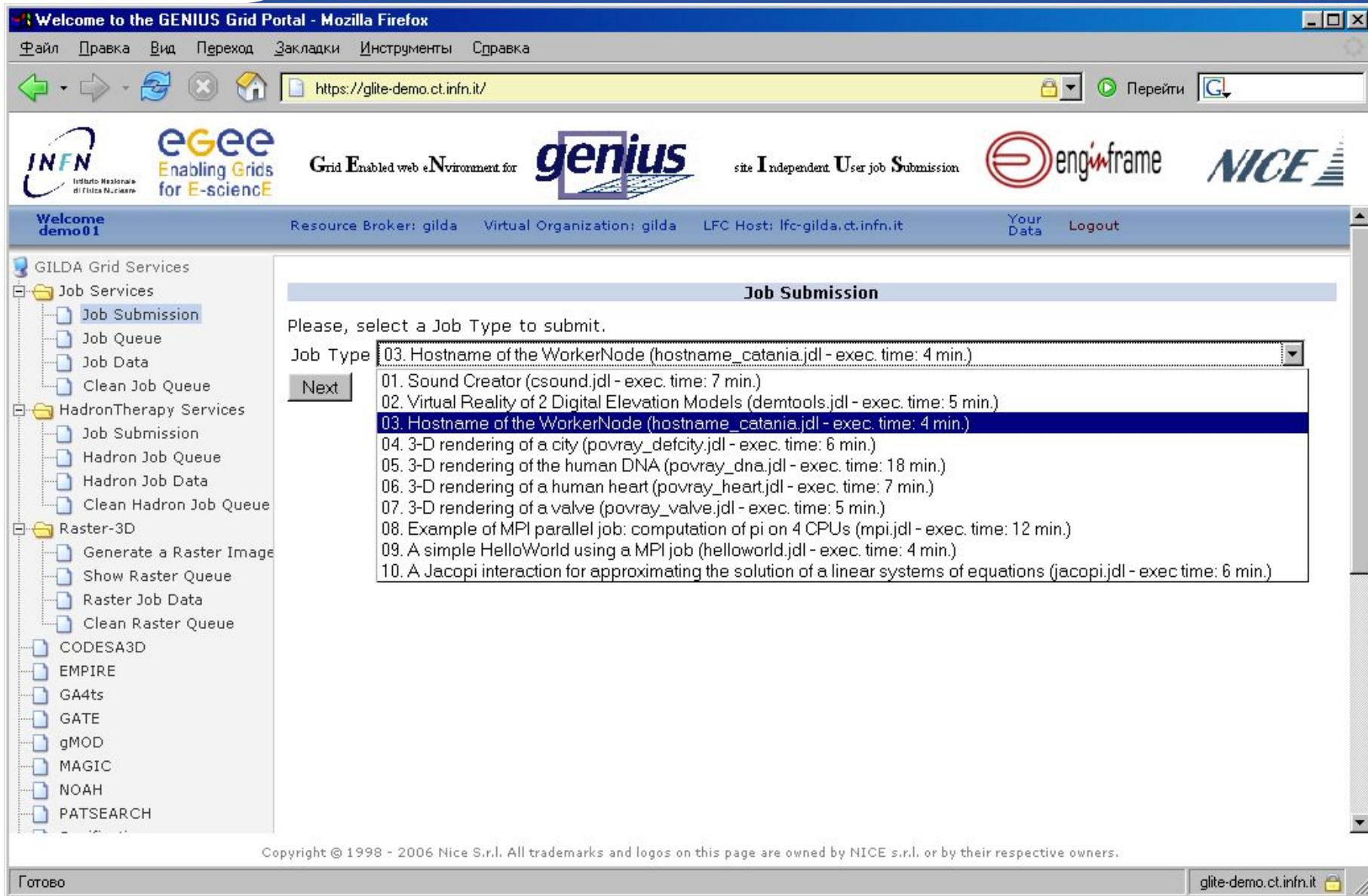
[Top] > demo12_YZ15IMKG2UUKQdnUfAf4HQ

<input type="checkbox"/>	MessageToSpheres.out	nov 08, 2006 16:22:59	5211
<input type="checkbox"/>	MessageToSpheres.err	nov 08, 2006 16:22:59	206696
<input type="checkbox"/>	MessageToSpheres1.png	nov 08, 2006 16:23:00	359448
<input type="checkbox"/>	MessageToSpheres2.png	nov 08, 2006 16:23:01	329892
<input type="checkbox"/>	MessageToSpheres3.png	nov 08, 2006 16:23:02	497030
<input type="checkbox"/>	MessageToSpheres4.png	nov 08, 2006 16:23:03	476402
<input type="checkbox"/>	MessageToSpheres5.png	nov 08, 2006 16:23:04	450278

Выходные файлы

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Welcome to the GENIUS Grid Portal - Mozilla Firefox

Файл Правка Вид Переход Закладки Инструменты Справка

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

Welcome demo01 Resource Broker: gilda Virtual Organization: gilda LFC Host: lfc-gilda.ct.infn.it Your Data Logout

GILDA Grid Services

- Job Services
 - Job Submission
 - Job Queue
 - Job Data
 - Clean Job Queue
- HadronTherapy Services
 - Job Submission
 - Hadron Job Queue
 - Hadron Job Data
 - Clean Hadron Job Queue
- Raster-3D
 - Generate a Raster Image
 - Show Raster Queue
 - Raster Job Data
 - Clean Raster Queue
- CODESA3D
- EMPIRE
- GA4ts
- GATE
- gMOD
- MAGIC
- NOAH
- PATSEARCH

Job Submission

Please, select a Job Type to submit.

Job Type: 03. Hostname of the WorkerNode (hostname_catania.jdl - exec. time: 4 min.)

Next

- 01. Sound Creator (csound.jdl - exec. time: 7 min.)
- 02. Virtual Reality of 2 Digital Elevation Models (demtools.jdl - exec. time: 5 min.)
- 03. Hostname of the WorkerNode (hostname_catania.jdl - exec. time: 4 min.)**
- 04. 3-D rendering of a city (povray_defcity.jdl - exec. time: 6 min.)
- 05. 3-D rendering of the human DNA (povray_dna.jdl - exec. time: 18 min.)
- 06. 3-D rendering of a human heart (povray_heart.jdl - exec. time: 7 min.)
- 07. 3-D rendering of a valve (povray_valve.jdl - exec. time: 5 min.)
- 08. Example of MPI parallel job: computation of pi on 4 CPUs (mpi.jdl - exec. time: 12 min.)
- 09. A simple HelloWorld using a MPI job (helloworld.jdl - exec. time: 4 min.)
- 10. A Jacopi interaction for approximating the solution of a linear systems of equations (jacopi.jdl - exec. time: 6 min.)

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Готово glite-demo.ct.infn.it

Welcome to the GENIUS Grid Portal - Mozilla Firefox

Файл Правка Вид Переход Закладки Инструменты Справка

https://glite-demo.ct.infn.it/ Перейти

Welcome demo01 Resource Broker: gilda Virtual Organization: gilda LFC Host: lfc-gilda.ct.infn.it Your Data Logout

Job Submission

Now you may also choose a specific Computing Element for your job.

Job Type Selected


Specify the CE Resource



- Let the GILDA Resource Broker choose
- dgt01.ui.savba.sk:2119/jobmanager-lcgpbs-infinite
- dgt01.ui.savba.sk:2119/jobmanager-lcgpbs-long
- dgt01.ui.savba.sk:2119/jobmanager-lcgpbs-short
- grid-ce.bio.dist.unige.it:2119/jobmanager-lcgpbs-infinite
- grid-ce.bio.dist.unige.it:2119/jobmanager-lcgpbs-long
- grid-ce.bio.dist.unige.it:2119/jobmanager-lcgpbs-short
- 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-infinite
- grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-long
- grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-short
- iceage-ce-01.ct.infn.it:2119/jobmanager-lcgpbs-infinite
- iceage-ce-01.ct.infn.it:2119/jobmanager-lcgpbs-long
- iceage-ce-01.ct.infn.it:2119/jobmanager-lcgpbs-short
- tc06.nesc.ed.ac.uk:2119/jobmanager-lcgpbs-infinite
- tc06.nesc.ed.ac.uk:2119/jobmanager-lcgpbs-long
- tc06.nesc.ed.ac.uk:2119/jobmanager-lcgpbs-short
- trigriden00.unime.it:2119/jobmanager-lcgpbs-infinite

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Готово glite-demo.ct.infn.it

Welcome to the GENIUS Grid Portal - Mozilla Firefox
 Файл Правка Вид Переход Закладки Инструменты Справка
 https://glite-demo.ct.infn.it/



 Grid Enabled web eNvironment for **genius**
site Independent User job Submission



Welcome demo01 Resource Broker: gilda Virtual Organization: gilda LFC Host: lfc-gilda.ct.infn.it Your Data Logout

GILDA Grid Services

- Job Services
 - Job Submission**
 - Job Queue
 - Job Data
 - Clean Job Queue
- HadronTherapy Services
 - Job Submission
 - Hadron Job Queue
 - Hadron Job Data
 - Clean Hadron Job Queue
- Raster-3D
 - Generate a Raster Image
 - Show Raster Queue
 - Raster Job Data
 - Clean Raster Queue
- CODESA3D
- EMPIRE
- GA4ts
- GATE
- gMOD
- MAGIC
- NOAH
- PATSEARCH

Job Submission

```

Selected Virtual Organisation name (from proxy certificate extension): gilda
Connecting to host glite-rb2.ct.infn.it, port 7772
Logging to host glite-rb2.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-rb2.ct.infn.it:9000/AEv1DONWed4t0bbqvcbFbQ

The job identifier has been saved in the following file:
/home/demo01/.genius/.tmp_submittedjob_demo01
    
```

[Click here to see the status of this job](#)

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https://glite-demo.ct.infn.it/ Перейти







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Job Queue

#	Globus JobID	Last Update Time	Status	Destination	Exit Code	Name
1	AEv1DONWed4t0bbqvcbFbQ	2006 Nov 7 14:52	Running	tc06.nesc.ed.ac.uk:2119/jobmanager-lcgpbs-short		hostname_catania.jdl

Details

Submission:

- Job manager: genius
- Time: 2006 Nov 7 14:52
- Host:
- Directory:

Execution:

- Time:
- Host: tc06.nesc.ed.ac.uk:2119/jobmanager-lcgpbs-short
- Directory:






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Job Queue

#	Globus JobID	Last Update Time	Status	Destination	Exit Code	Name
1	AEv1DONWed4t0bbqvcbFbQ	2006 Nov 7 14:52	Done	tc06.nesc.ed.ac.uk:2119/jobmanager-lcgpbs-short	0	hostname_catania

[Details](#)

GET OUTPUT

[[Приложение JavaScript]]

Do you really want to get output of job
https://glite-rb2.ct.infn.it:9000/AEv1DONWed4t0bbqvcbFbQ?

OK Отмена






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https://glite-demo.ct.infn.it/ Перейти

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20061107_150021_AEv1DONWed4t0bbqvcbF	nov 08, 2006 15:00:10	
<input type="checkbox"/> demo01_AEv1DONWed4t0bbqvcbFbQ	nov 07, 2006 15:00:15	4096

 Action...






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[Top] > demo01_AEv1DONWed4t0bbqvcBfBQ

 [hostname.err](#) nov 07, 2006 15:00:14 0
 [hostname.out](#) nov 07, 2006 15:00:15 19

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Перейти

tc08.nesc.ed.ac.uk






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[20061107_150021_AEv1DONWed4t0bbqvcbFbC] nov 08, 2006 15:00:10

[Top] > demo01_AEv1DONWed4t0bbqvcbFbQ

Toggle select  hostname.errf nov 07, 2006 15:00:14 0

Clear select  hostname.outf nov 07, 2006 15:00:15 19

Action...
 Action...
 Delete selected
 Create .zip
 Create .tar
 Create .tar.Z
 Create .tgz
 Download selected

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