

DEGISCO

Desktop Grids For International Scientific Collaboration



**The first year of DEGISCO: hybrid infrastructure and
new applications based on BOINC**

Hannover, 18/08/2011

Robert Lovas, MTA SZTAKI - Project coordinator

DEGISCO is supported by the FP7 Capacities Programme under contract nr RI-261561.

DEGISCO

Desktop Grids for International Scientific Collaboration

Project acronym:

DEGISCO

Contract n°: RI-261561

Project type: CSA-SA

Start date: 01/06/2010

Duration: 24 months

Funding from the EC:

800.000 €

Total funded effort

in person-month: 320

Web site: <http://degisco.eu>

Coordinator:

Dr. Robert Lovas

email: rlovas@sztaki.hu

*Expand European DCIs into non-EU partner countries by supporting the creation of **new Desktop Grids for e-Science** in those countries and in Europe and by **connecting** them to the DCI using the 3G Bridge technology. **Support applications** on this expanded infrastructure, **disseminate**, promote and provide **training** about this expanded infrastructure and its usage.*



A recent blog item from the BOINC forum

Author	Message
<p>David Anderson Volunteer moderator Project administrator</p>  <p>Send message</p> <p>Joined: 10 Sep 05 Posts: 460</p>	<p>Message 39005 - Posted: 17 Jul 2011 4:56:12 UTC</p> <p>Since 2008, the Einstein@OSG project from Caltech has used grid resources on the Open Science Grid and on the German D-Grid to supply about 150,000 CPU hours daily to the Einstein@Home project.</p> <hr/> <p>ID: 39005  Reply Quote</p>



+



Einstein@home

Relation of projects / Ecosystem

DEGISCO, EDGI & EDGeS

Supercomputer based service grids



Cluster based service grids



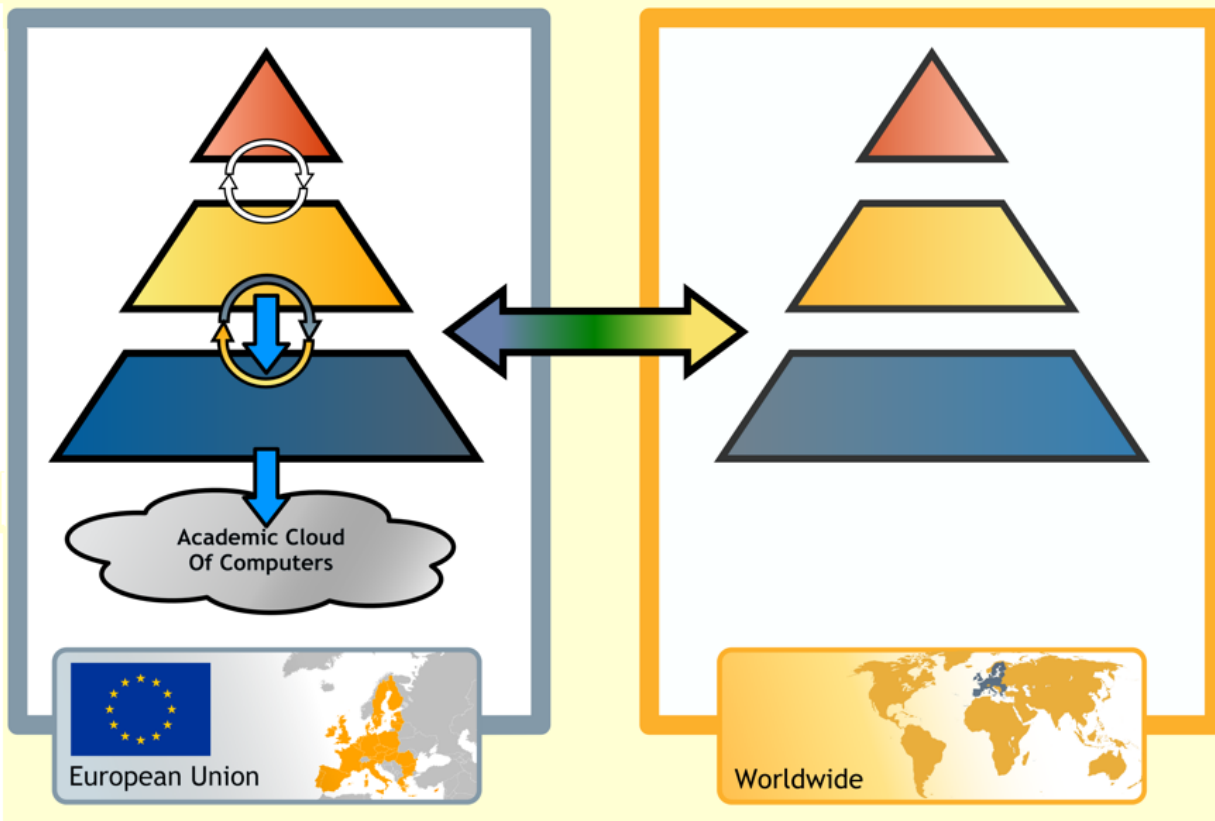
Volunteer or organisational desktop grids



 **DEGISCO** | 

 **EDGI** | 

 **EDGeS** | 



DEGISCO partners

	Participant organisation name	Short name	Country/Region	Expertise
1	Magyar Tudományos Akadémia Számítástechnikai és Automatizálási Kutatóintézet	MTA SZTAKI	Hungary 	Desktop Grids, Service grids, project management
2	Centre National de la Recherche Scientifique	CNRS	France 	XtremWeb, gLite
3	Universidad de Zaragoza Instituto de Biocomputación y Física de Sistemas Complejos	UNIZAR-Ibercivis	Spain 	Spanish Desktop Grid federation, Grid operation, applications, dissemination
4	Stichting AlmereGrid	AlmereGrid	The Netherlands 	Desktop Grids, Dissemination
5	The University of Westminster	UoW	United Kingdom 	Application support, Grid operation
6	Academia Sinica Grid Computing	ASGC	Taiwan 	Local IT expertise/users
7	Institute for Systems Analysis Russian Academy of Sciences	ISA RAS	Russian Federation 	Local/Regional IT expertise/users
8	G.V. Kurdyumov Institute for Metal Physics	IMP	Ukraine 	Local/Regional IT expertise/users
9	JSC Kazakh-British Technical University	KBTU	Kazakhstan 	Local IT expertise/users
10	Universidade Federal de Campina Grande	UFCG	Brazil 	Regional Desktop Grid expertise/users
11	School of Computer Huazhong University of Science and Technology	HUST	China 	Local/Regional IT expertise/users
12	Atos Origin S.A.	ATOS Origin	Spain 	Business use of grids

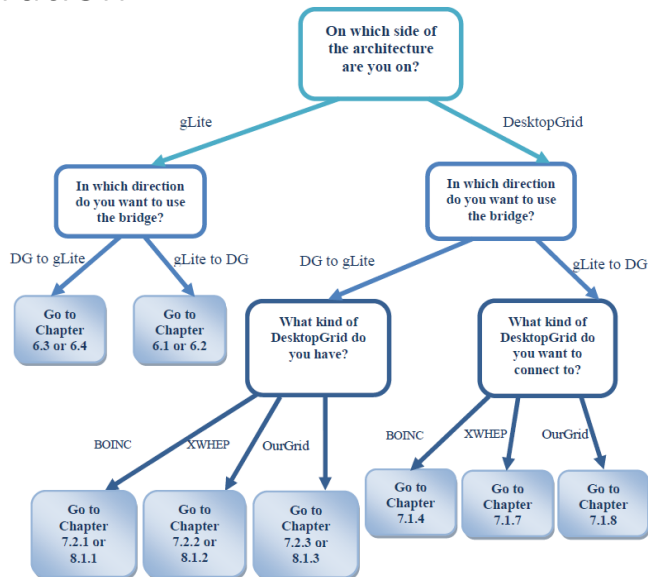
Worldwide coverage

Participant Countries/Regions




Achievements (first year)

- International Desktop Grid Federation launched (with EDGI)
- Guide for Grid operators
- Best practices in application porting and support
- Best practices in infrastructure operation



D2.4.1 – Report on best practices in infrastructure support



1.	New Cavendish Street	576 nodes
2.	Marylebone Campus	559 nodes
3.	Regent Street	395 nodes
4.	Wells Street	31 nodes
5.	Little Tichfield Street	66 nodes
6.	Harrow Campus	254 nodes

Figure 1 - The Westminster Local Desktop Grid (WLDG)

6.4.1 BOINC client operation and maintenance

In general, the everyday operation of the BOINC client application does not require any effort or resources. The required effort is restricted to the initial installation of the client and to its necessary updates when new releases are available and necessary.

Manual deployment of the BOINC client application is typically not feasible in a local Desktop Grid system. Similarly to other software, the BOINC clients are installed automatically and maintained by specifically developed Novel ZENWorks objects in the WLDG. As the BOINC client is part of the generic image that is installed on all laboratory computers throughout the University, it is guaranteed that any newly purchased and installed PC automatically becomes part of the WLDG. Updating the clients includes uninstalling them with ZENWorks and then installing the new client in the same way, with the same ZENWork object, but with a newly created and replaced MSI file.

The operation of the Desktop Grid should not interfere with the teaching activities in the laboratories, and should not have any negative influence on the student experience. Therefore, Desktop Grid tasks can only run on the machines when students are not logged in and not using them. When a student logs in to a machine, the desktop grid job is automatically suspended. The set-up and operation of the BOINC client should always conform to this generic rule.

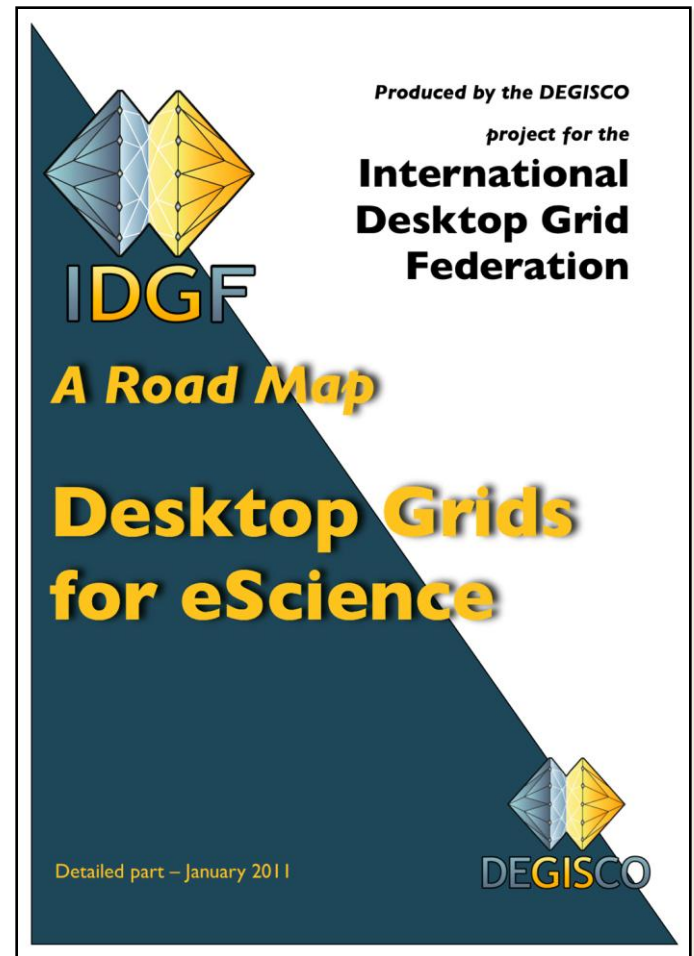
6.4.2 Operating the BOINC server

As the jobs can origin from different sources (EGEE->DG, portal, WS-submitter, DC-API master application) and from different users, the status of the work units is monitored in a regular basis with the help of the BOINC administrative web interface. This tool provides a convenient way to list all the actual work units and results on an application basis. It also

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Achievements (first year)

- Collaboration with other projects and initiatives
 - EPIKH, ERINA+, ...
 - MoU template is available
- Roadmap and recommendations
- **Production, test, development, validation infrastructures**
- **15 new applications**
- **Hierarchical helpdesks**

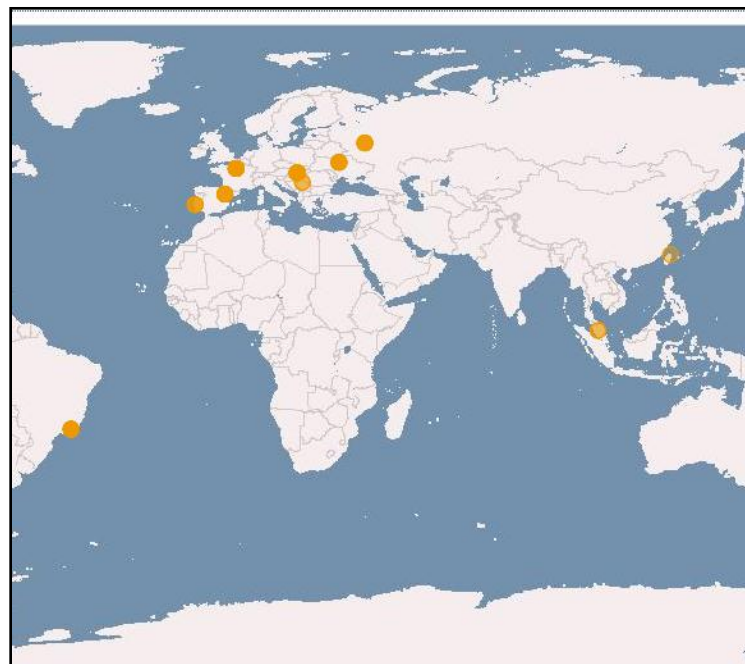


Hybrid infrastructure with over **180.000 computers** from Desktop Grids and over 2000 CPUs in Desktop Grid VO




































Infrastructure type		DG	DG type	3G Bridge Connection	Registered hosts	
DEGISCO	EDGeS legacy	EDGES@home	BOINC	SG→DG	12 149	
		EDGES@home	XWHEP	SG→DG	750	
		SZDG	BOINC	Both	87 666	
		Ibercivis	BOINC	DG→SG	41 727	
		UoW Local DG	BOINC	Both	1 881	
		LAL	XWHEP	Both	1 000	
		LRI public	XWHEP	Both	-	
		AlmereGrid	BOINC	DG→SG	4 535	
		AlmereGrid	XWHEP	SG→DG	10	
		Fundecyt RTE DG	BOINC	-	-	
	NEW	Production	ASGC DG	BOINC	SG→DG	1 062
			IMP (SLINCA@Home)	BOINC	DG->SG	1 626
			UFCG	OurGrid	Both	270
			ISA-RAS (Optima@Home)	BOINC	DG->SG	135
			Yoyo@Home	BOINC	DG->SG	34 550
		Test	HUST	XWHEP	DG->SG	<10
			ISA-RAS	BOINC	stand alone	<10
			KBTU	BOINC	SG->DG	70
			SZDGr	BOINC	DG->SG	<10
			IMP	BOINC	stand alone	<10
Development	ISA-RAS	BOINC	stand alone	<10		
	KBTU	BOINC	SG->DG	<10		
Validation	UNIZAR-IBERCIVIS	BOINC	SG->DG	<10		
Total					187 560	

SG sites in the VO:

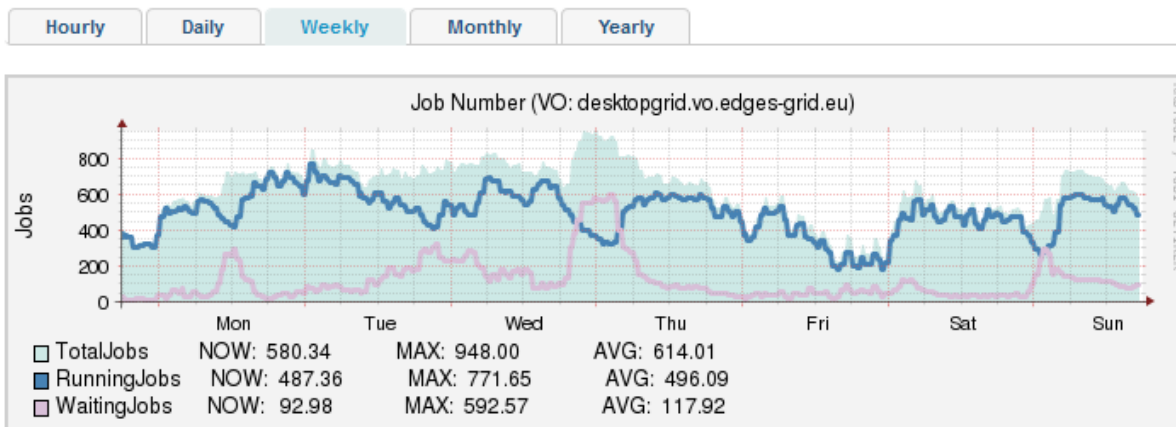


Desktop Grid VO – internal view

Name ▲	CPUs			Online Storage Space (GB)		Grid Jobs		
	Physical ⇅	Logical ⇅	SI2000 ⇅	TotalSize ⇅	UsedSize ⇅	Total ⇅	Running ⇅	Waiting ⇅
AEGIS01-IPB-SCL	176	704	1,689,600	0	 0%	716	 101%	 0%
BIFI	64	384	523,392	492	 15%	16	 4%	 0%
GRIF	1,602	7,411	15,590,608	110,122	 40%	22,068	 168%	 43%
MY-UPM-BIRUNI-01	86	344	4,851,088	0	 0%	2	 0%	 100%
NCG-INGRID-PT	312	1,248	2,131,584	428	 0%	3,312	 200%	 24%
RU-ISA-CGTDC	4	16	0	315	 5%	25	 100%	 36%
SZTAKI	14	34	44,288	1,099	 6%	21	 44%	 28%
TW-eScience	2	8	21,520	136	 10%	30	 237%	 1481516%
UA-KNU	24	80	164,000	2,164	 20%	19	 0%	 100%
UFCG-LSD	8	1	1,323	986	 5%	0	 0%	 0%
UFRJ-IF	62	244	478,012	12,691	 94%	1,114	 1%	 79892%
Total	2,354	10,474	25,495,415	128,433	57,371	27,323	15,806	1,344,849



New supported, external BOINC based volunteer projects



the wrapper platform
Yoyo @ home
for natural science

Forum | Chat | Project Description | Statistics | Rechenkraft.net

Please visit donation page to help the project cover running costs.

Account data for EDGeS User

yoyo@home member since	23 May 2011		
Country	International		
Total credit	2,038,386.83		
Recent average credit	18,425.59		
Badges			
Projects	Credits	Workunits	Bac Ear
Cruncher ogr	1,695,864.99	20438	
ecm	299,772.84	3993	
Euler (6,2,5)	10,563.38	802	

CAS@HOME
中国科学院志愿计算

Home About WIKI Forum Research Statistics User Select Language

User names starting with 'edges'

Name	Team	Average credit	Total credit	Country	Joined
7437 EDGeSUser		773.90	22,728	International	4 Jul 2011 6:51:39 UTC

POWERED BY BOINC

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SLinCA@home

SLinCA@Home

About SLinCA@Home

SLinCA (Scaling Laws in Cluster Aggregation) is a research project that uses Internet-connected computers to do research in field of materials science. You can participate by downloading and running a free program on your computer.

SLinCA is based at [G.V.Kurdyumov Institute for Metal Physics \(National Academy of Sciences of Ukraine - NASU\)](#).

Project Description, Wiki, FAQ, and other sections are under construction, but some info can be found in

- [Wikipedia](#), the free encyclopedia;
- [our publications](#).

SLinCA@Home is supported by [our partners](#): [DEGISCO](#), [IDGF](#), and [Distributed Computing team 'Ukraine'](#).

Join SLinCA@Home

- [Llegiu les regles i normes nostres](#)
- This project uses BOINC. If you're already running BOINC, select Attach to Project. If not, [download BOINC](#).
- When prompted, enter <http://dg.imp.kiev.ua/slinca/>
- If you're running a command-line or pre-5.0 version of BOINC, [create an account](#) first.
- If you have any problems, [get help here](#).

Technical Details

- Number of registered users: **1943**.
- Number of *active* users: **394**.
- Number of hosts: **808**.

Usuari del Dia



[koll](#)

Czechoslovak 1963

Mi, Computer, BOINC, Geocaching, Photo, Bicycle, Breadbaker, ...

News

Temporary withdrawal of large (>~2GB for RAM) tasks - only smaller ones are available now.

April 13, 2011, 08:05 GMT

During the last weekend it has become clear that our big workunits (~ 2GB for RAM) were run in a very inefficient way: we have got results from Linux-machines only. Details can found at our forum pages. So we decided to cancel them and return to them after more effective optimization and elimination of some bugs. But we are grateful to those who managed to perform these large workunits successfully - they will be used by us! Many thanks to re_SET, varador, Saenger, zombie67, DEATH, and many others who sent us their reports, observations and suggestions! These condusions and corrections have become possible only due to your help!

Our project Desktop Grid (DG) is connected to global Service Grid (SG) now!

April 11, 2011, 06:28 GMT

We are glad to announce that SLinCA@Home became the part of a global distributed computation infrastructure at production level thanks to the successful collaboration in the frame of the EU funded DEGISCO project and the EDGeS 3G Bridge technology from MTA SZTAKI. With this step, our scientific applications at SLinCA@Home Desktop Grid are executed now not only on the volunteers' home computers equipped by BOINC, but also on servers and clusters of Service Grid sites operated by HPC and Grid centers world-wide, which joined the International Desktop Grid Federation and offer capacities to numerous Desktop Grids. Please, [see statistics for 'EDGES user'](#).

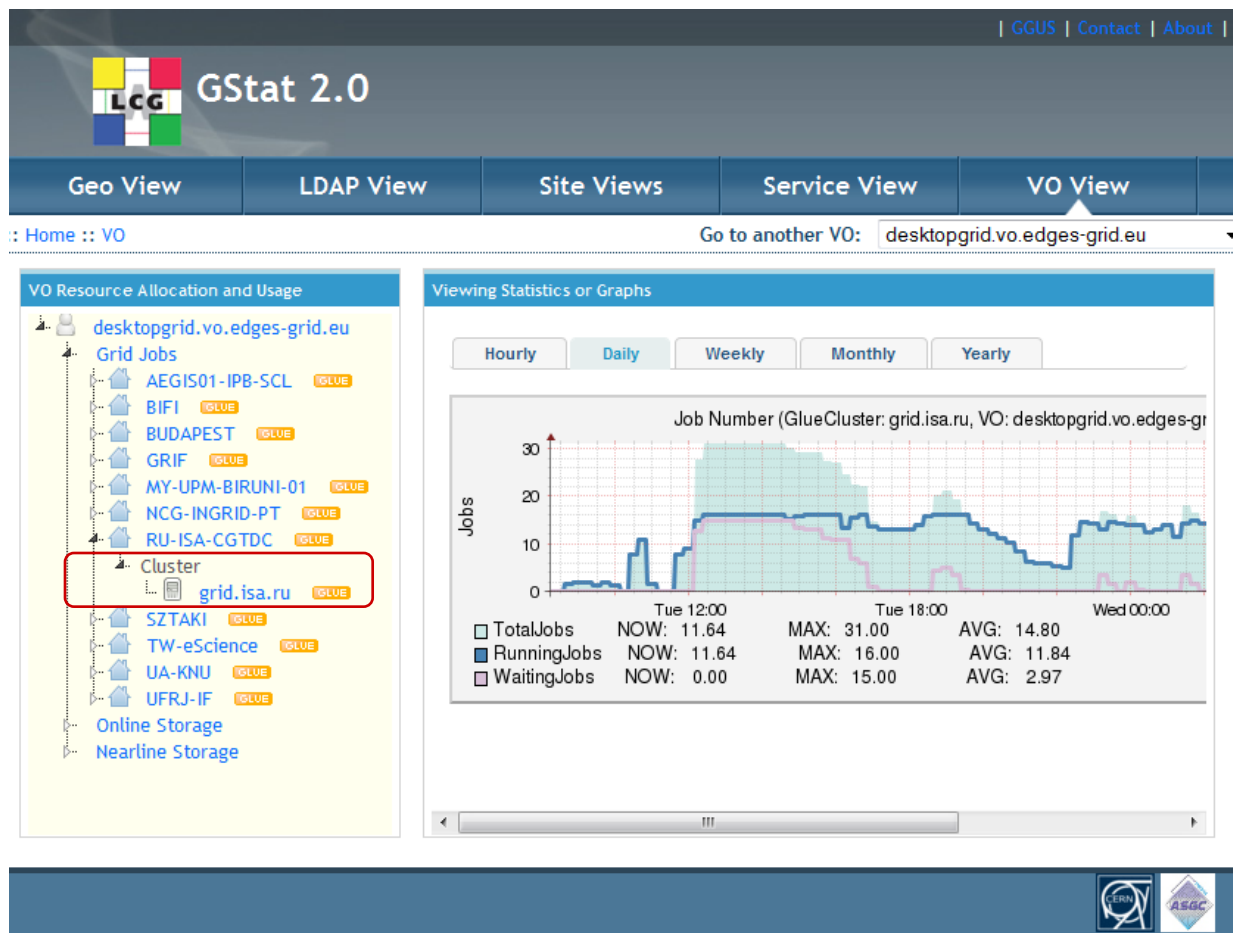
SERVER STATUS: We restarted the project and cleaned database from faulty workunits.

April 8, 2011, 11:43 GMT

During this week we collected responses from various Windows-users (Vista, 7, XP64) about malfunction of our 32-bit Windows-clients of our 'lodci'-applications. Today we fixed this bug in Windows-clients of applications (where conflicts were

New Service Grids connected

Russian Data Intensive Grid site added



GGUS | Contact | About |

LCG GStat 2.0

Geo View | LDAP View | Site Views | Service View | **VO View**

:: Home :: VO Go to another VO: desktopgrid.vo.edges-grid.eu

VO Resource Allocation and Usage

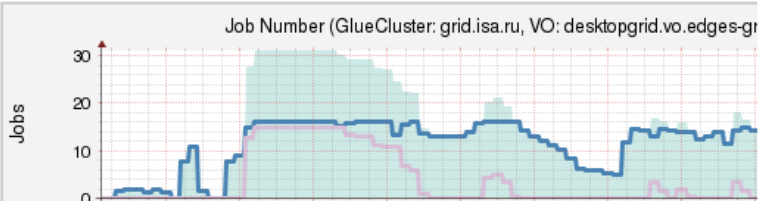
desktopgrid.vo.edges-grid.eu

- Grid Jobs
 - AEGIS01-IPB-SCL (GLUE)
 - BIFI (GLUE)
 - BUDAPEST (GLUE)
 - GRIF (GLUE)
 - MY-UPM-BIRUNI-01 (GLUE)
 - NCG-INGRID-PT (GLUE)
 - RU-ISA-CGTDC (GLUE)
 - Cluster**
 - grid.isa.ru (GLUE)**
 - SZTAKI (GLUE)
 - TW-eScience (GLUE)
 - UA-KNU (GLUE)
 - UFRJ-IF (GLUE)
- Online Storage
- Nearline Storage


Viewing Statistics or Graphs

Hourly | **Daily** | Weekly | Monthly | Yearly

Job Number (GlueCluster: grid.isa.ru, VO: desktopgrid.vo.edges-gr)



	Tue 12:00	Tue 18:00	Wed 00:00
TotalJobs	NOW: 11.64	MAX: 31.00	AVG: 14.80
RunningJobs	NOW: 11.64	MAX: 16.00	AVG: 11.84
WaitingJobs	NOW: 0.00	MAX: 15.00	AVG: 2.97

IDGF - Application Development Methodology

1. Analysis of current application

2. Requirements analysis

3. Systems design

4. Detailed design

5. Implementation

6. Testing

7. Validation

8. Deployment

9. User support, maintenance & feedback

DG Application super-repository

Desktop Grid Application Super-Repository

This super-repository lists all applications which we know that are supported on Desktop Grids. It contains applications supported by the EDGI and DEGISCO projects, but also other applications will be listed.

- AutoDock (Molecular docking simulations using AutoDock)
- BNB-Grid (A Generic Framework for Implementing Optimization Algorithms on Distributed Systems)
- BinSys (Search for Generalized Number Systems)
- Blender (Blender: 3D Video Rendering)
- CALD (laserac: CALD - Cellular Automata-based Laser Dynamics)
- CPDynSG (City Population Dynamics and Sustainable Growth)
- Cisterns ()
- Convert (ImageMagick Convert)
- Correlizer ()
- DART (Audio Retrieval)
- DSP (DSP: Defining the class of optimal periodic non-uniform sampling sequence)
- EMMIL (E-Marketplace Model Integrated with)
- EpanetGrid ()
- ISDEP (Nuclear Fusion application)
- InterProScan ()
- MOPAC (MOPAC (Molecular Orbital PACKage))
- Marbs ()
- Merlin (Genetic Linkage Analysis)
- MultiscaleVideoP (Multiscale Image and Video)
- PLINK (Analysis of Genotype Data)
- PR (PR: Patient Readmission Application)
- Reservoir ()
- SIMAP (Simulating and analysing the dynamic)
- SlinCA (Scaling Laws in Cluster Aggregation)
- SOGA (Signal and Image Processing with GPU)
- UCEExplorer ()
- VAST (VisuAl and SemanTic image search)
- VISAGE (Video Stream Analysis)

Desktop Grid Application Super-Repository

[IDGF Application overview] [Production Application Repository][Validation Application Repository]

BNB-Grid Software product

Long name
A Generic Framework for Implementing Optimization Algorithms on Distributed Systems

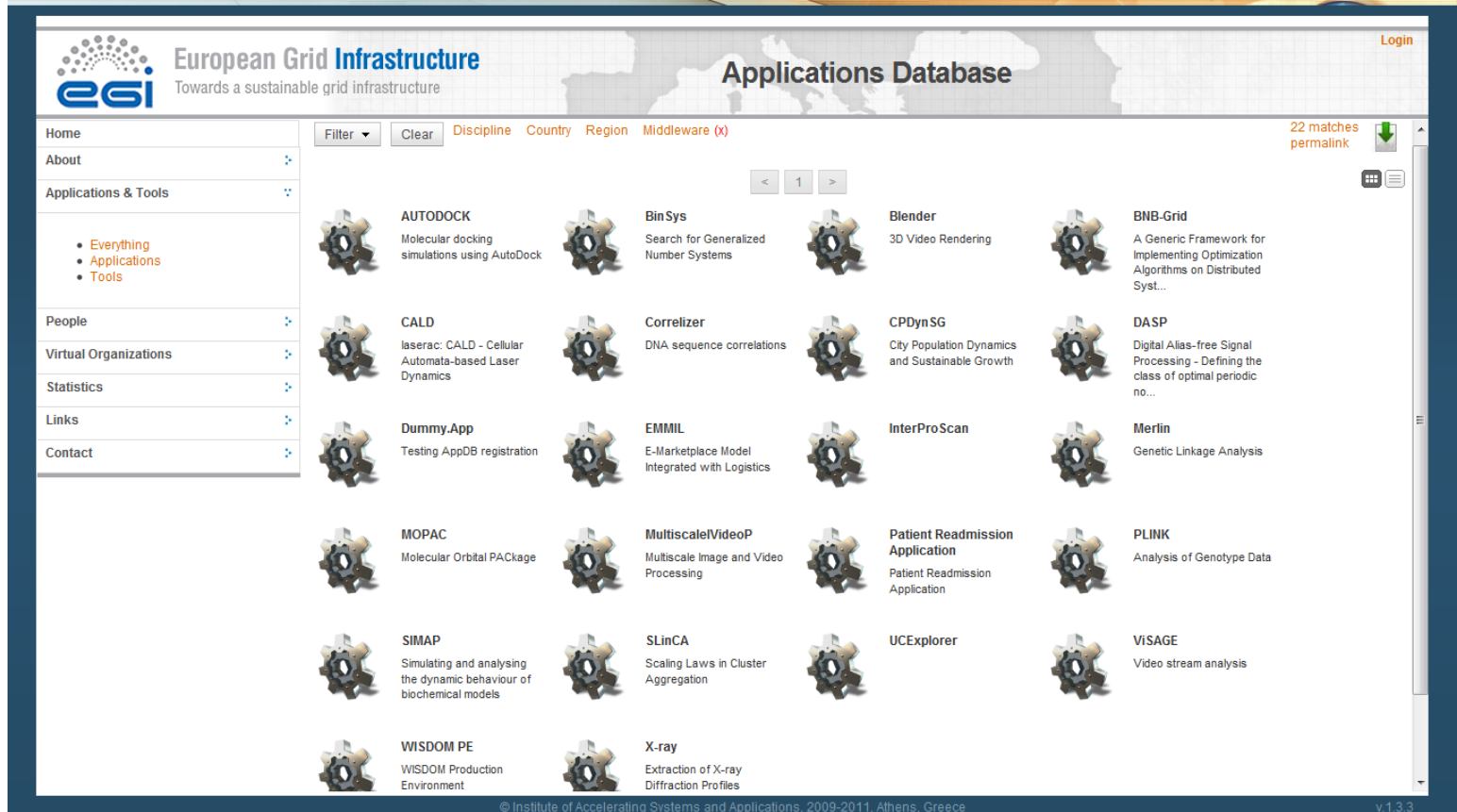
Description
Optimization methods are actively used in engineering design, material science, bio-informatics, computational chemistry and many other fields. Due to the inherent computational complexity of most practical optimization problems, in many cases these methods require the computing power beyond the capability of available computational resources. Thus using high-performance computing is inevitable. The global optimization framework BNB-Grid is aimed at solving hard combinatorial, discrete and global optimization problems in a distributed heterogeneous computing environment. BNB-Grid has been successfully applied to molecular conformation problem that plays an important role in computational chemistry and to cryptanalysis of A5/1 cryptosystem. For both problems new results were obtained.

Supported by
DEGISCO

Runs on BOINC Grid
[Local Desktop Grid - ISA-RAS]

Available in repository
DEGISCO Application Repository [BOINC]
DEGISCO Application Repository [XtremWeb]

Ported applications available @ EGI AppDB



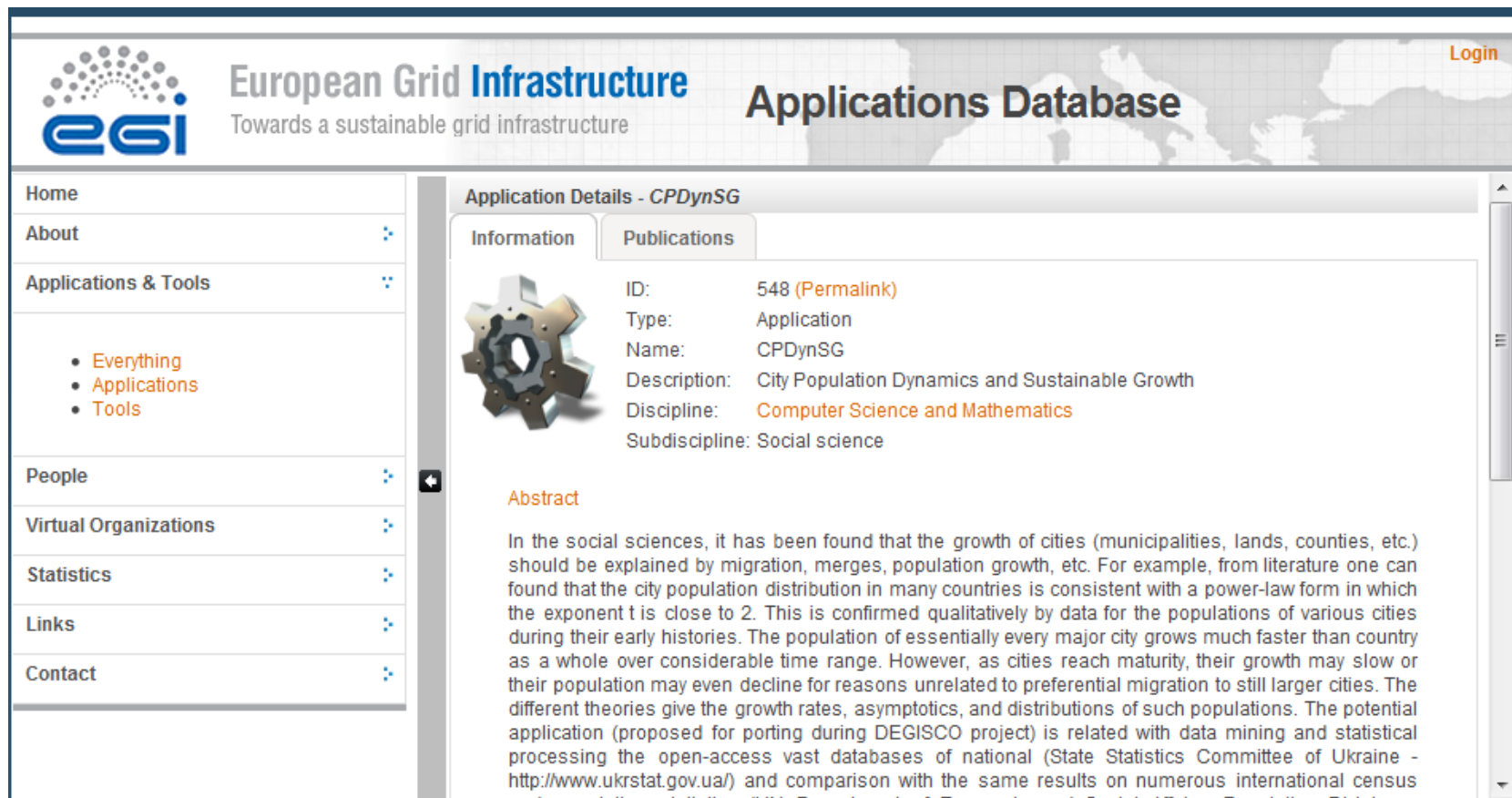
The screenshot shows the EGI Applications Database interface. At the top, it features the EGI logo and the text "European Grid Infrastructure Towards a sustainable grid infrastructure". The main heading is "Applications Database". On the right, there is a "Login" link and a notification "22 matches" with a "permlink" icon. Below the heading, there are filter buttons for "Filter", "Clear", "Discipline", "Country", "Region", and "Middleware (x)". A navigation bar shows "< 1 >".

The main content area displays a grid of application cards, each with a gear icon and a title. The applications listed are:

- AUTODOCK**: Molecular docking simulations using AutoDock
- BinSys**: Search for Generalized Number Systems
- Blender**: 3D Video Rendering
- BNB-Grid**: A Generic Framework for Implementing Optimization Algorithms on Distributed Syst...
- CALD**: Iaserac: CALD - Cellular Automata-based Laser Dynamics
- Correlizer**: DNA sequence correlations
- CPDynSG**: City Population Dynamics and Sustainable Growth
- DASP**: Digital Alias-free Signal Processing - Defining the class of optimal periodic no...
- Dummy.App**: Testing AppDB registration
- EMMIL**: E-Marketplace Model Integrated with Logistics
- InterProScan**
- Merlin**: Genetic Linkage Analysis
- MOPAC**: Molecular Orbital PACKAGE
- MultiscaleVideoP**: Multiscale Image and Video Processing
- Patient Readmission Application**: Patient Readmission Application
- PLINK**: Analysis of Genotype Data
- SIMAP**: Simulating and analysing the dynamic behaviour of biochemical models
- SlinCA**: Scaling Laws in Cluster Aggregation
- UCExplorer**
- VISAGE**: Video stream analysis
- WISDOM PE**: WISDOM Production Environment
- X-ray**: Extraction of X-ray Diffraction Profiles

At the bottom of the interface, there is a copyright notice: "© Institute of Accelerating Systems and Applications, 2009-2011, Athens, Greece" and a version number "v.1.3.3".

Applications from ICPC partners



The screenshot shows the 'European Grid Infrastructure Applications Database' website. The header includes the EGI logo and the text 'Towards a sustainable grid infrastructure'. The main title is 'Applications Database'. A navigation menu on the left lists: Home, About, Applications & Tools (with sub-items: Everything, Applications, Tools), People, Virtual Organizations, Statistics, Links, and Contact. The main content area is titled 'Application Details - CPDynSG' and has two tabs: 'Information' and 'Publications'. Under the 'Information' tab, there is a gear icon and the following details: ID: 548 (Permalink), Type: Application, Name: CPDynSG, Description: City Population Dynamics and Sustainable Growth, Discipline: Computer Science and Mathematics, and Subdiscipline: Social science. Below this is an 'Abstract' section with the following text: 'In the social sciences, it has been found that the growth of cities (municipalities, lands, counties, etc.) should be explained by migration, merges, population growth, etc. For example, from literature one can find that the city population distribution in many countries is consistent with a power-law form in which the exponent t is close to 2. This is confirmed qualitatively by data for the populations of various cities during their early histories. The population of essentially every major city grows much faster than country as a whole over considerable time range. However, as cities reach maturity, their growth may slow or their population may even decline for reasons unrelated to preferential migration to still larger cities. The different theories give the growth rates, asymptotics, and distributions of such populations. The potential application (proposed for porting during DEGISCO project) is related with data mining and statistical processing the open-access vast databases of national (State Statistics Committee of Ukraine - <http://www.ukrstat.gov.ua/>) and comparison with the same results on numerous international census



Support activity

- Hierarchical
- Global support
- Expert groups
- Ticketing & Fora

DEGISCO
Desktop Grids For International Scientific Collaboration

Start The project **Infrastructure** Applications Contact Disclaimer - Acknowledgement Downloads

International Desktop Grid Federation > DEGISCO project > Infrastructure > Helpdesk

Helpdesk - General Information

The helpdesk provides a centralized entry point for the 2nd level support from the IDGF infrastructure and application support experts.

Please note that the 1st level support is provided by the IDGF forum, however in case of the following event categories a ticket must be opened:

- critical software bug or vulnerability in the 3G bridge or other software component
- major configuration change is needed in the Desktop Grid VO or Desktop Grid server
- security incident
- every problem with 72-hour or longer expected solution time
- misuse of the infrastructure

Registration: please write email to `idgf-helpdesk [at] degisco [dot] eu`.

Help Desk - Tickets

RT for helpdesk.degisco.eu Logged in as rlovas | Preferences | Logout

Home **RT at a glance** New ticket in 3G_ASCG Search...

Home

10 highest priority tickets I own Edit

10 newest unowned tickets Edit

Bookmarked Tickets Edit

#	Subject	Priority	Queue	Status
18	[SZTAKI Desktop Grid] Message from server: (reached daily quota of 144 tasks)	0	DG_SZTAKI	new ☆
16	WUs memory requirement	0	DG_IMP	new ☆

Quick ticket creation

Subject:

Queue: 3G_ASCG Owner: rlovas

Requestors:

Content:

Reminders

Quick search Edit

Queue	new	open	stalled
3G_ASCG	0	0	0
3G_CNRS	0	0	0
3G_IBERCIVIS	0	0	0
3G_ISA_RAS	0	0	0
3G_SZTAKI	0	1	0
3G_UFCG	0	0	0
APP_REPOSITORY	0	0	0
DG_Almere	1	0	0
DG_ASCG	0	0	0
DG_CNRS	0	0	0
DG_IBERCIVIS	0	0	0
DG_IMP	1	0	0
DG_ISA_RAS	0	0	0
DG_KBTU	0	0	0
DG_SZTAKI	1	1	0
DG_UFCG	1	0	0
DG_UoW	0	0	0
SG_ASCG	0	0	0
SG_CNRS	0	0	0

IDGF International Desktop Grid Federation

Start Members Experts Documentation Events Infrastructures / Applications Contact **Forum** Disclaimer

International Desktop Grid Federation > International Desktop Grid Federation > Forum > Integrating Desktop Grids with Service Grid using the 3G bridge > Programming issues

Message Boards (Forum)

Message Boards Home Recent Posts My Posts My Subscriptions Statistics Search

Post New Thread

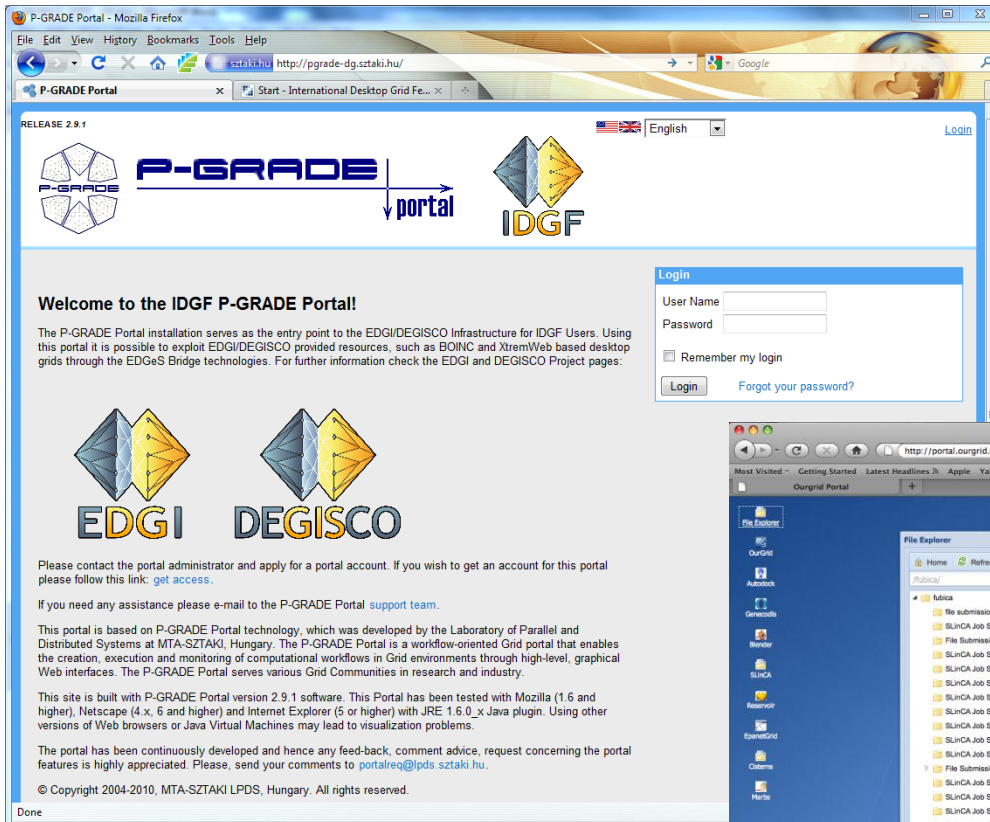
Programming issues Back to Integrating Desktop Grids with Service Grid using the 3G bridge

Threads

Thread	Flag	Started By	Posts	Views	Last Post
running fortran program on DG via qLite		Nikolay Kutovskiy	13	63	Date: 11/20/10 9:24 AM By: Nikolay Kutovskiy

Showing 1 result.

Scientific gateways (workflows / jobs)



RELEASE 2.9.1

English

Welcome to the IDGF P-GRADE Portal!

The P-GRADE Portal installation serves as the entry point to the EDGI/DEGISCO Infrastructure for IDGF Users. Using this portal it is possible to exploit EDGI/DEGISCO provided resources, such as BOINC and XtremWeb based desktop grids through the EDGeS Bridge technologies. For further information check the EDGI and DEGISCO Project pages:

EDGI **DEGISCO**

Please contact the portal administrator and apply for a portal account. If you wish to get an account for this portal please follow this link: [get access](#).

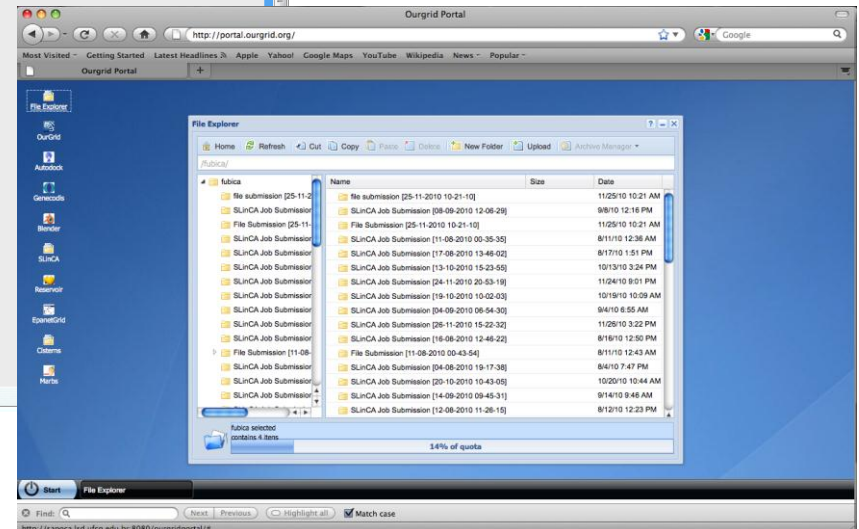
If you need any assistance please e-mail to the P-GRADE Portal [support team](#).

This portal is based on P-GRADE Portal technology, which was developed by the Laboratory of Parallel and Distributed Systems at MTA-SZTAKI, Hungary. The P-GRADE Portal is a workflow-oriented Grid portal that enables the creation, execution and monitoring of computational workflows in Grid environments through high-level, graphical Web interfaces. The P-GRADE Portal serves various Grid Communities in research and industry.

This site is built with P-GRADE Portal version 2.9.1 software. This Portal has been tested with Mozilla (1.6 and higher), Netscape (4.x, 6 and higher) and Internet Explorer (5 or higher) with JRE 1.6.0_x Java plugin. Using other versions of Web browsers or Java Virtual Machines may lead to visualization problems.

The portal has been continuously developed and hence any feed-back, comment advice, request concerning the portal features is highly appreciated. Please, send your comments to portalreq@pds.sztaki.hu.

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Name	Size	Date
file submission [25-11-2010 10-21-10]		11/25/10 10:21 AM
SLHCA Job Submission		9/8/10 12:16 PM
File Submission [25-11-2010 10-21-10]		11/25/10 10:21 AM
SLHCA Job Submission		8/11/10 12:36 AM
SLHCA Job Submission		8/17/10 1:51 PM
SLHCA Job Submission		10/13/10 3:24 PM
SLHCA Job Submission		11/24/10 9:01 PM
SLHCA Job Submission		10/18/10 10:09 AM
SLHCA Job Submission		9/4/10 6:55 AM
SLHCA Job Submission		11/25/10 3:22 PM
SLHCA Job Submission		8/16/10 12:50 PM
File Submission [11-08-2010 00-43-54]		8/11/10 12:43 AM
SLHCA Job Submission		8/4/10 7:47 PM
SLHCA Job Submission		10/20/10 10:44 AM
SLHCA Job Submission		9/14/10 9:46 AM
SLHCA Job Submission		8/12/10 12:23 PM



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Collaboration opportunities

- Join the International Desktop Grid Federation (individual or institute)
- Sign Memorandum of Understanding between your (national) projects and the DEGISCO project
- Learn at and contribute to IDGF and DEGISCO events
- Be adaptor of recommendations, best practices and roadmaps
- Support and consultancy: deployment and maintenance of new (volunteer) Desktop Grids worldwide
- **Join the infrastructure with your BOINC project and benefit from the unused capacities of other grids**
- Application porting support for scientists (outside of the EU – EDGI is responsible for the EU developers)
- Support for dissemination and outreach of results and plans
- *More information on benefits → Peter Kacsuk's presentation*

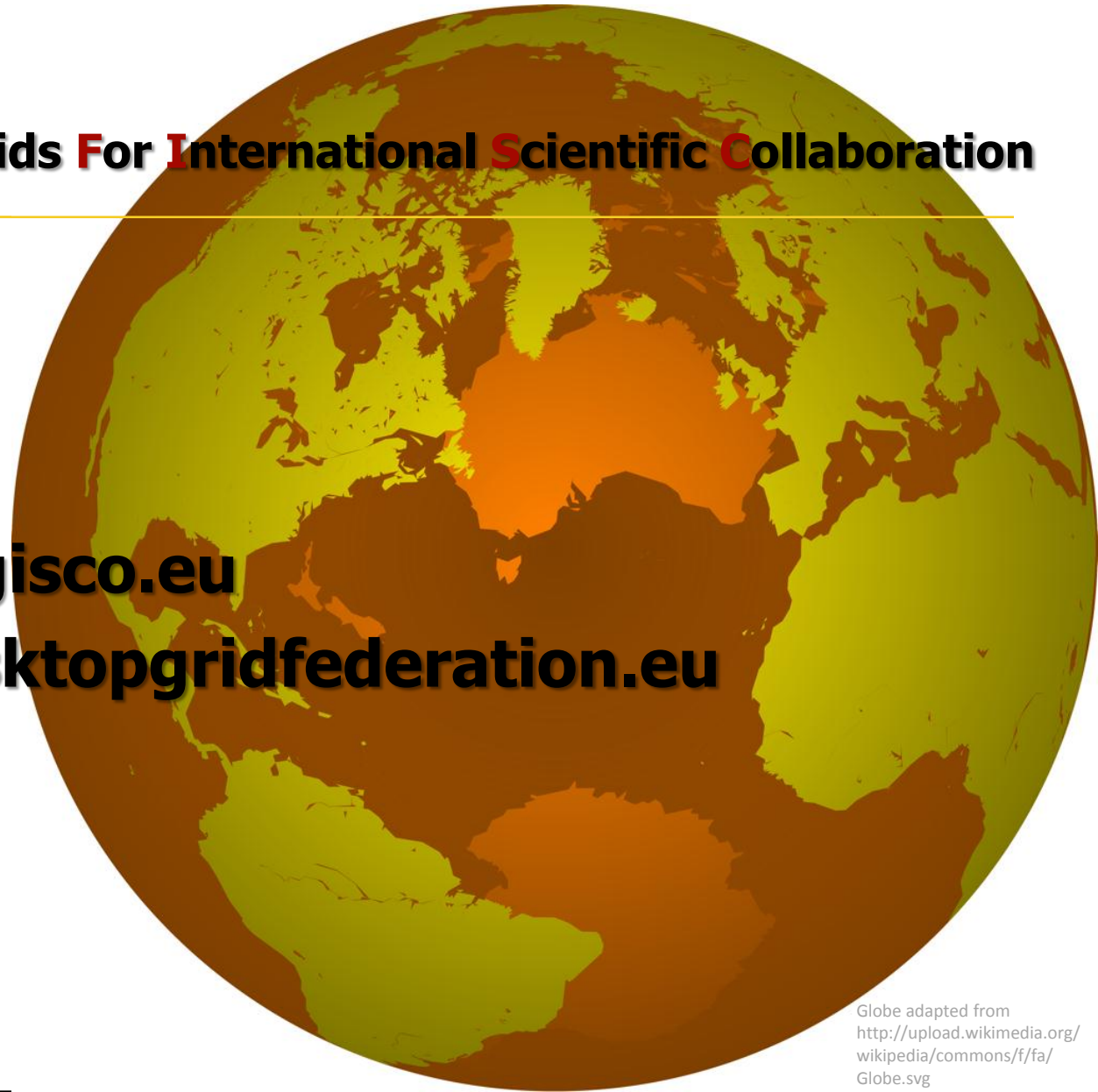


DEGISCO

Desktop Grids For International Scientific Collaboration

<http://degisco.eu>

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