

COMPUTING WITH DESKTOP GRIDS AND COMBINED DCIs

TUTORIAL

Tuesday 01/07

16:30-19:00

room 407 LIT, JINR

Tutors:

MAROSI, Attila Csaba (Institute for Computer Science and Control, Hungarian Academy of Sciences (MTA SZTAKI))

ZAIKIN, Oleg (ISDCT SB RAS)

Part I. SZTAKI tools for desktop grids and combined distributed infrastructures (~ 1 hour)

1. Applications and Job Submission mechanisms for EDGeS@home
2. Use cases for SZTAKI DG tools: BioVeL (Biodiversity in Virtual e-Laboratory) and KOPI (Translated Plagiarism Search with help of Desktop Grids)
3. One-Click DG Infrastructure Deployment (Demo)
4. Presentation of the Desktop Grid Federation Technical Wiki for tools and use cases
5. Summary of the results of the first year of the IDGF-SP Desktop Grid project

Part II. CluBORun tool (Cluster for BOINC Run) (~ 1 hour)

1. Description of CluBORun, a tool aimed at utilizing idle resources of computing clusters in volunteer computing projects based on BOINC will be presented. The key feature of CluBORun is that it utilizes only idle resources of computing clusters (just as BOINC-manager does it for computers) and uses only ordinary cluster's user rights.
2. Demo of configuring and running CluBORun on a computing cluster.

Part III. Discussion (~ 30 minutes)