



P-GRADE Portal workflow gyakorlat Ismertető

Debreceni Egyetem, 2008.01.30.

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portal.p-grade.hu



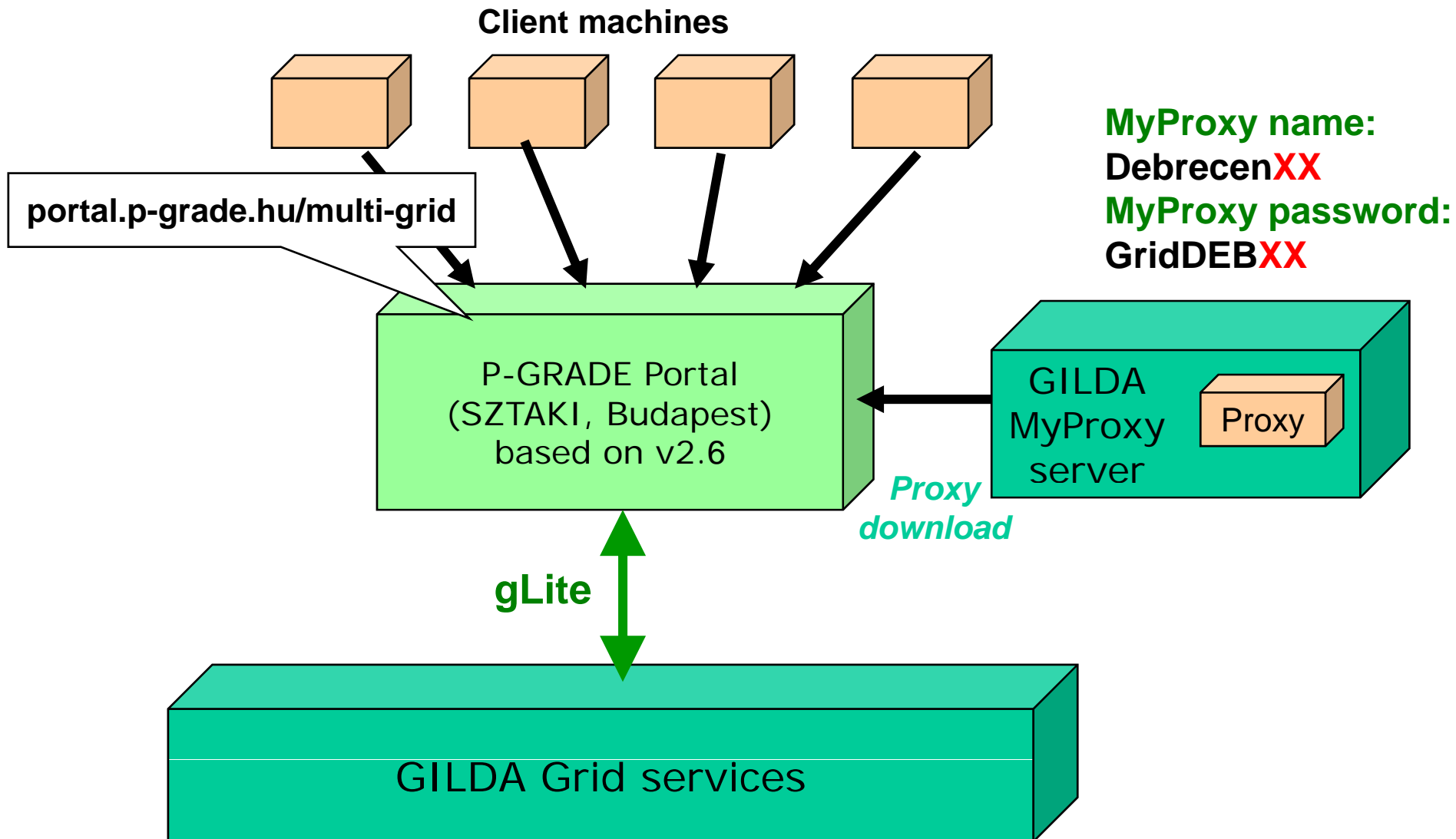
Feladatsor megnyitása

<http://indico.cern.ch/conferenceDisplay.py?confId=26383>

Január 30, 13:30 szekció



Infrastruktura

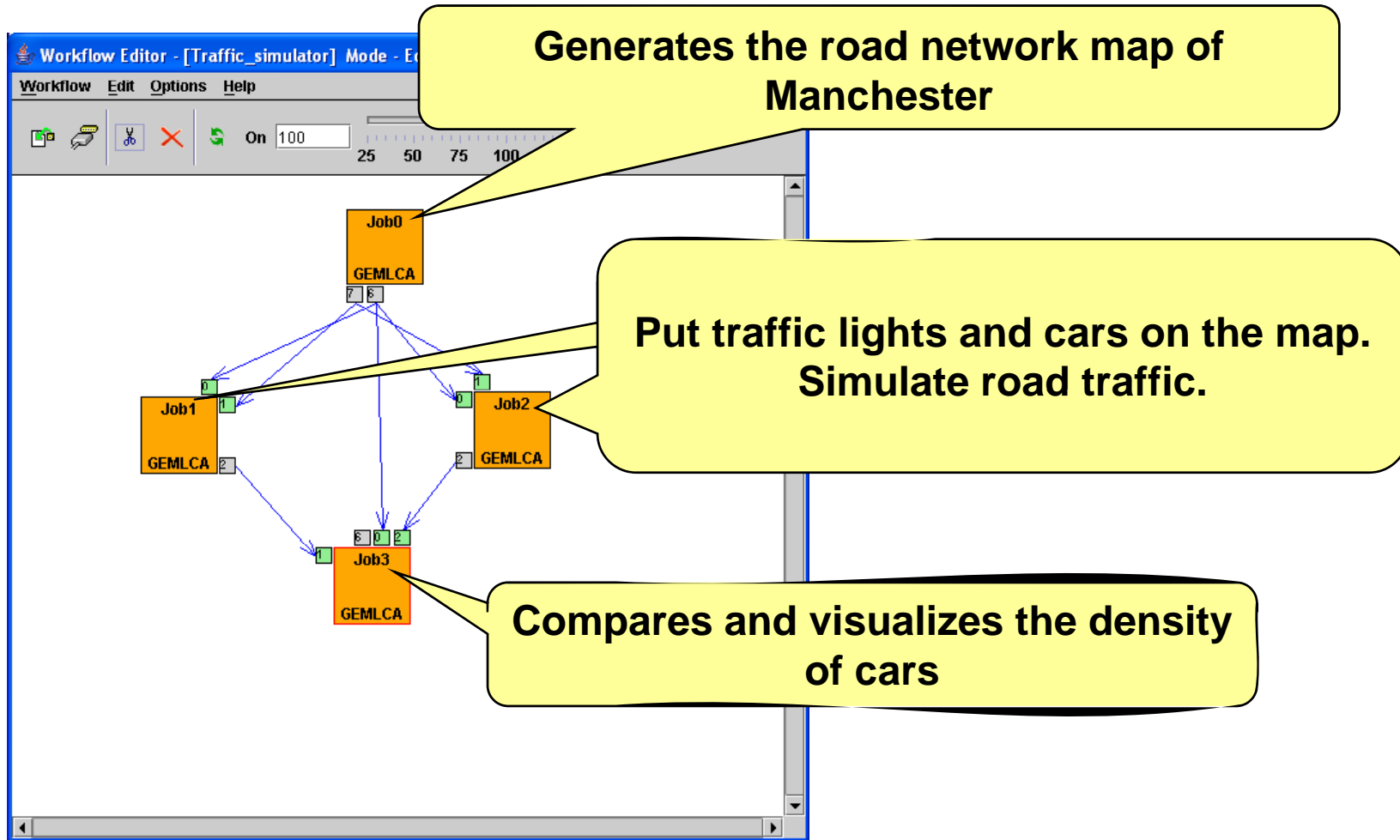




Exercise 1

Import and execute a pre-defined application

Traffic simulation

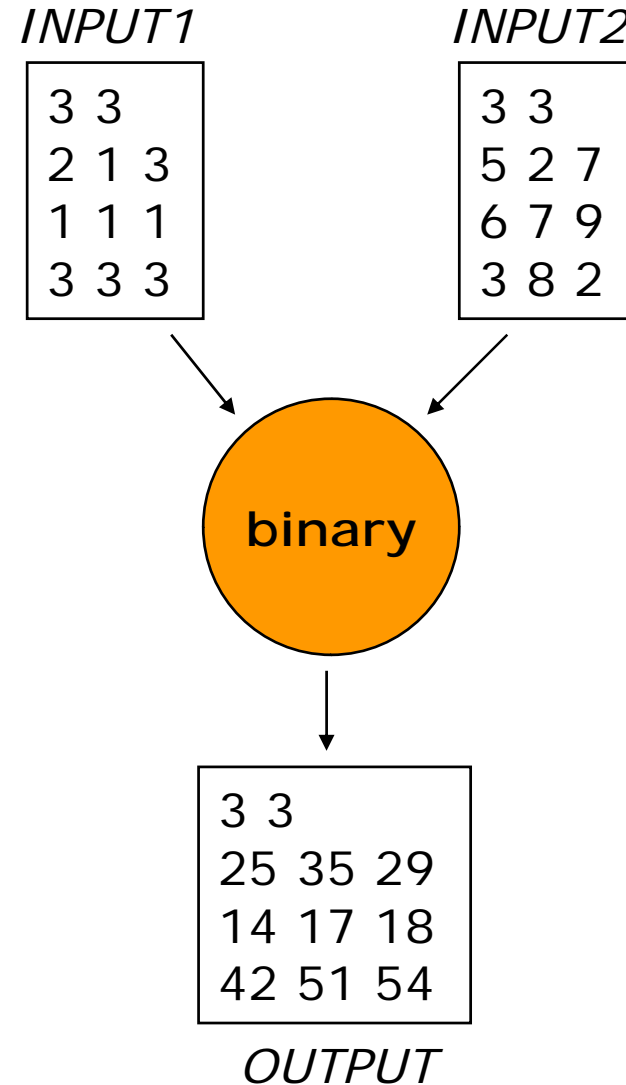




Exercise 2

Execute a matrix multiplication (one job workflow)

- C code, compiled on GILDA UI
- Reads matrixes from two files called **INPUT1** and **INPUT2**
- Writes result matrix into file called **OUTPUT**
- Controllable by command line parameters
- Local execution:
./multiply M V
- Execute as grid job, transfer input and output files in Sandboxes





Exercise 3

Save the multiplication **OUTPUT** on a SE

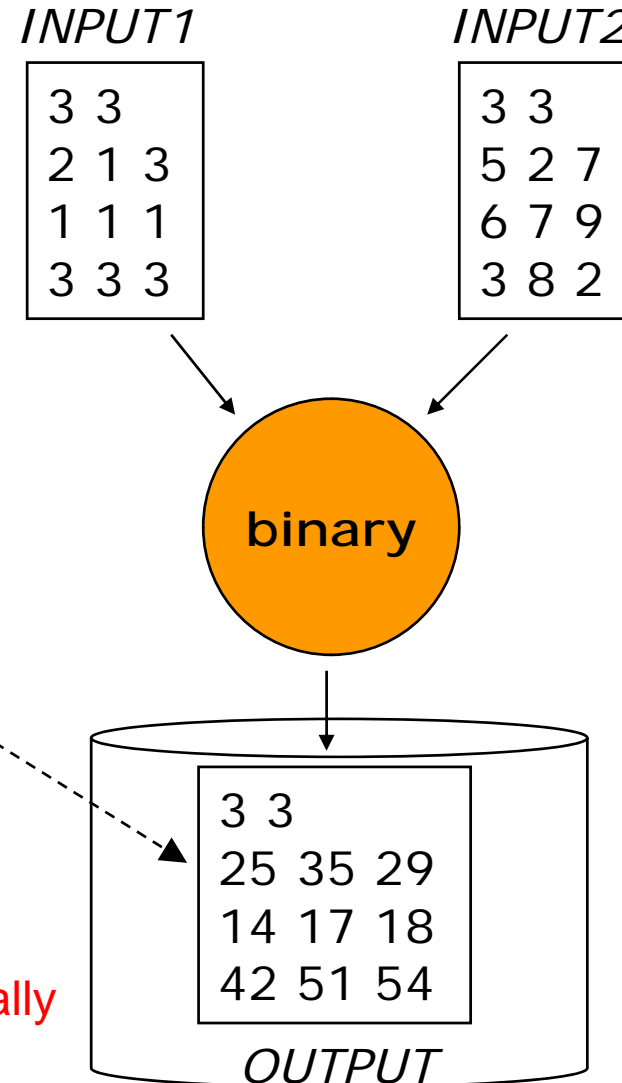
- Modify output file type from “Local” to “Remote”
- Specify a logical file name as target location:

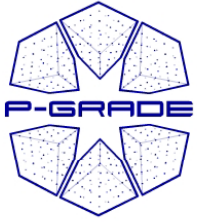
lfn:/grid/gilda/kualalumpur11/...

lfn:/grid/gilda/kualalumpur11/...

Logical location defined by the user

Storage Element selected automatically

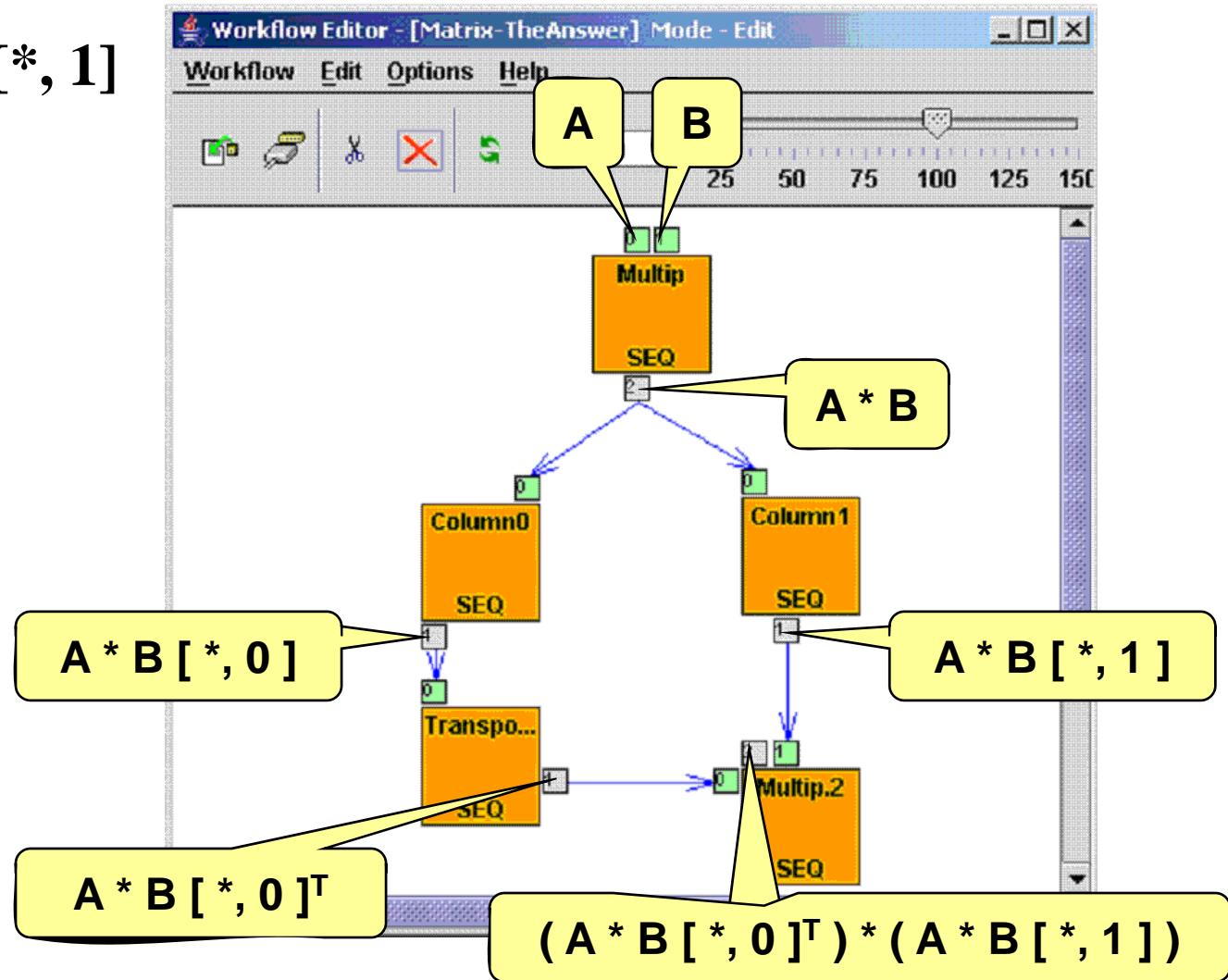




Exercise 4

Define a complex workflow using the MatrixOperations job

- $AB[* , 0]^T * AB[* , 1]$





Portal hozzáférési információ

Portal accounts: **user01** – **user40** *use your number*

Portal passwords: **user01** – **user40**

Információ proxy letöltéshez:

Hostname: **grid001.ct.infn.it** *use your number*

Port: **7512**

Account: **debrecen01** – **debrecen40**

Password: **GridDEB01** – **GridDEB40**



Job level fault tolerance

Tips

- **Exclude erroneous sites from the brokering process:**
 1. Open the JDL editor of the job
 2. Write **other.GlueCEInfoHostname != "hostname"** into the "Ranks & requirements" window
- **Automatic job resubmission:**
 1. Add **ShallowRetryCount = 3** into JDL



User authentication at the school

