#### **Preliminary performance results of EMI-2 release**

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#### **Outline**

- Current test infrastucture
- Selection of test cases
- Description of test and tool used for tests
- The results
- Comparison of the results

### Current ARC testing infrastructure

- Revision testing
- Functional testing
- Performance testing
- Recording test results and generating test reports
- Autodeploy installation
- http://arc-emi.grid.upjs.sk/tests.php

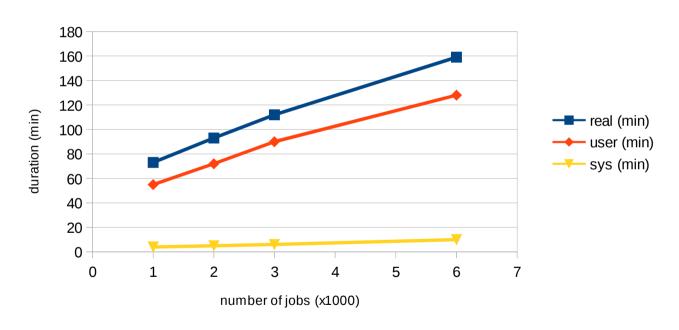
# Why 1000 job test?

- simple relaization
- Test emulates all user actions to submit complex job (input files, output files, complilation of the code)
- The test case cover the functionality in regime when all hidden errors are acumulated and well detectable

### The test results of 1000 job submission

#### Server rc1.grid.upjs.sk-clasic

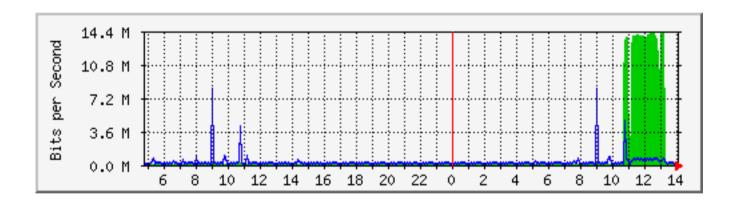
#### Performance of job submissin



Server pgs03.grid.upjs.sk (part of EMI testbed) real 120 (min) user 100 (min) sys 5 (min)

#### 1000 job test-cont.

# Network traffic on the segment during 1000 job submission test



# Comparison of the results for ARC CE (WS)

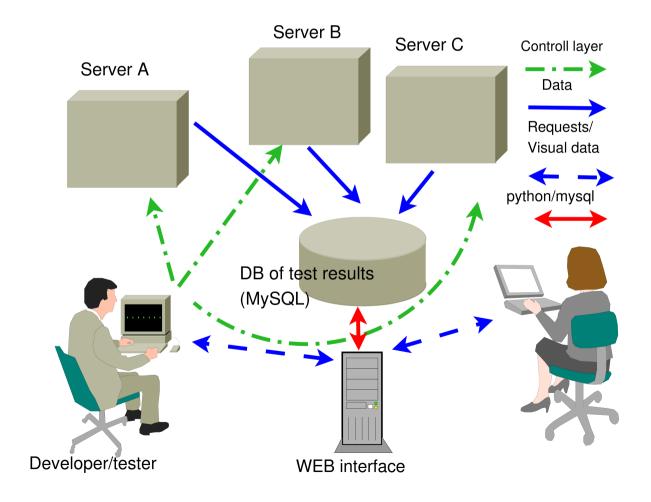
Time (minutes)	ARC 1.1.0	ARC 2.0.0
real	11	44
user	3	7
system	1	2

## Testing of reliability of job submission

ARC CE configuration	ARC 1.1.0	ARC 2.0.0
classic	1	1
WS	1	0.8-0.85

#### Demonstration of tool for performace testing

http://node1.grid.upjs.sk/performance1.php



#### **Conclusions**

- New performance and reliability issues was detected
- The performance of job submission to the dedicated server for ARC v. 2.0.0 seems to be lower than for ARC 1.1.0
- The reason of performance issue is not known
- We plan to perform more detail performance study for the most common test cases

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