Brunel University West London

School of Engineering & Design Electronic & Computer Engineering M.Sc. in Distributed Computing Systems Engineering Workshop 5 Grid Programming with GridGain

Team x Team Members 1., 2., ....

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Introduction

1. Workshop aims & objectives

The aims of this workshop are to gain knowledge in the area of grid computing technologies in a distributed environment. One of the main objectives of this workshop is to apply the grid computing concepts by implementing a distributed application with GridGain in Java.

Another objective is to use project management as a technique for managing, monitoring and controlling the project.

Additionally understanding about the adoption of grid technologies as the right option for technological projects should be gained.

Build a grid using the framework GridGain...

1. Background

* Overview of Grid Computing
* GridGain framework

1. Projekt Description
   1. Problem Definition

Grid to get the password for a 7zip file

* 1. Requirements

The password

GUI

Use of multiple nodes in a grid

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3.more

Use of git for he version management (github)

1. Project Management
   * 1. Project Team
     2. Project Roles
     3. Project Plan
     4. Project Activities
     5. Project Milestones
2. Design & Implementation
   * 1. System requirements

Last java version (7)

Last eclipse version (Kepler)

* + 1. System architecture

Master node with GUI and controller (server)

Slaves nodes (clients)

Client package

Server package

GUI implementation

With Java FX

Applied algorithms

* + 1. Measurements
  1. Test Management
     1. Test Environments
     2. Test Cases
     3. Test Scenarios
        1. Setting up the test environments
        2. Using grid nodes
        3. Load balancing
     4. Test Conduction

1. Analysis
   1. Assessing the results
   2. Project final report
2. Conclusion

 1. Obstacles

2. Outlook

1. Appendix
   1. Personal statements of the team members
   2. Assigment Submission Forms