

Exam Rules

Embedded Systems and Advanced Operating Systems courses
2017/2018

Last update: September 19th, 2017

The exam is composed by a written part + a mandatory project.
The final grade is given by the sum of two obtained scores.

Written Exam

- 1 open question and 1 exercise OR 2 exercises
- Max score: 22
- Min score accepted to pass: 13

Project

- The student can choose between three options:
 - HW or SW development project
 - A demo + report about features and usage of a tool/framework
 - A monographic research about the state of the art of a given topic or an experimental activity
 - Project delivery must be performed by sending an e-mail including the link to the remote GIT repository (in case of development project) and an archive, including the both source files and the PDF of the final report (or research)
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Development Project

The development project usually consists of the design and development of a software tool/module or hardware component.

Requirements

1. Source code versioning using GIT (as explained in the class)
2. A report (in English, written using LaTeX) describing the goals of the project, the design and the implementation, the results (optional, project-dependent), conclusions and possible future developments

Evaluation

Up to 10 points max, according to the following partition:

- Quality of the developed code (6)
- Quality and completeness of the report (2)

- Goals/problem introduction, design and implementation, results, conclusions and possible future developments
 - Quality of the GIT repository (2)
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Demo

The goal of this class of projects is to develop the knowledge about the features and the usage of a tool or framework, assigned by the tutors.

Requirements

1. The student must install and test the tool/framework
2. A live demo to be held at the HEAPlab, showing different usage patterns to highlight the different features of the tool/framework
3. A report (in English, written using LaTeX) providing an overview of the framework, installation notes, description of the tested usage pattern, conclusions and suggested future developments

Evaluation

Up to 7.5 points max, according to the following partition:

- Quality of the demo (4)
 - Quality and completeness of the report (2.5)
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Monographic Research or Experimental Activity

The goal of this class of projects is to produce a report or survey about a given research topic, assigned by the tutors. Alternatively, an experimental activity can be assigned, consisting of making some specific experiments to collect data.

Requirements

1. The report must be written in English using LaTeX
2. The report must include the Bibliography section listing all the cited papers
3. No copy-and-paste allowed (the project is regarded as finished with a 0 points score)

Evaluation

Up to 5 points max, according to the following partition:

- Writing quality / Quality of the experiments (4)
- Presentation (PowerPoint/LibreOffice/Beamer/...) to be held at HEAPlab in 20' + questions (1)