



# Review report of a final thesis

**Reviewer:** Ing. Alexandru Moucha, Ph.D.  
**Student:** Bc. Jakub Šatoplet  
**Thesis title:** A Study on Time-Sensitive Networking Integration within PikeOS RTOS  
**Branch / specialization:** System Programming  
**Created on:** 3 June 2024

## Evaluation criteria

### 1. Fulfillment of the assignment

- ▶ [1] assignment fulfilled
- [2] assignment fulfilled with minor objections
- [3] assignment fulfilled with major objections
- [4] assignment not fulfilled

Excellent work. I was impressed by the in-depth knowledge of networking, hardware and software necessary to build a driver.

### 2. Main written part 100/100 (A)

The written part is excellent, English is pristine, easy to read and understand.

### 3. Non-written part, attachments 100/100 (A)

The student invited me for a demo of the implemented driver, meeting which took place in my office.

### 4. Evaluation of results, publication outputs and awards 100/100 (A)

Although the outcomes are not at the level of a scientific discovery, they are nevertheless very useful for the company which requested the implementation. Moreover, it is a company which manufactures certified hardware and software for critical applications in the aviation industry, which adds an extra level of quality, dedication and required efficiency.

## **The overall evaluation**

100 /100 (A)

Simply put one of the best pieces of work I had the privilege to read. I enjoyed it thoroughly.

## **Questions for the defense**

I do not have questions. Whatever questions I had I already addressed them to the students during the demo which he provided.

## **Instructions**

### **Fulfillment of the assignment**

Assess whether the submitted FT defines the objectives sufficiently and in line with the assignment; whether the objectives are formulated correctly and fulfilled sufficiently. In the comment, specify the points of the assignment that have not been met, assess the severity, impact, and, if appropriate, also the cause of the deficiencies. If the assignment differs substantially from the standards for the FT or if the student has developed the FT beyond the assignment, describe the way it got reflected on the quality of the assignment's fulfilment and the way it affected your final evaluation.

### **Main written part**

Evaluate whether the extent of the FT is adequate to its content and scope: are all the parts of the FT contentful and necessary? Next, consider whether the submitted FT is actually correct – are there factual errors or inaccuracies?

Evaluate the logical structure of the FT, the thematic flow between chapters and whether the text is comprehensible to the reader. Assess whether the formal notations in the FT are used correctly. Assess the typographic and language aspects of the FT, follow the Dean's Directive No. 52/2021, Art. 3.

Evaluate whether the relevant sources are properly used, quoted and cited. Verify that all quotes are properly distinguished from the results achieved in the FT, thus, that the citation ethics has not been violated and that the citations are complete and in accordance with citation practices and standards. Finally, evaluate whether the software and other copyrighted works have been used in accordance with their license terms.

### **Non-written part, attachments**

Depending on the nature of the FT, comment on the non-written part of the thesis. For example: SW work – the overall quality of the program. Is the technology used (from the development to deployment) suitable and adequate? HW – functional sample. Evaluate the technology and tools used. Research and experimental work – repeatability of the experiment.

### **Evaluation of results, publication outputs and awards**

Depending on the nature of the thesis, estimate whether the thesis results could be deployed in practice; alternatively, evaluate whether the results of the FT extend the already published/known results or whether they bring in completely new findings.

### **The overall evaluation**

Summarize which of the aspects of the FT affected your grading process the most. The overall grade does not need to be an arithmetic mean (or other value) calculated from the evaluation in the previous criteria. Generally, a well-fulfilled assignment is assessed by grade A.