

I. IDENTIFICATION DATA

Thesis name:	Parallel Algorithms for Microstrip Antennas Modeling by the Method of Moments
Author's name:	Dinara Giniyatova
Type of thesis:	master
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Computer Science
Thesis supervisor:	Ing. Miroslav Bures, Ph.D.
Supervisor's department:	Department of Computer Science

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	ordinarily challenging
<i>Evaluation of thesis difficulty of assignment.</i>	
I consider the topic as an ordinarily challenging compared with average level of diploma theses presented at the CTU in Prague.	

Satisfaction of assignment	fulfilled with minor objections
<i>Assess that handed thesis meets assignment. Present points of assignment that fell short or were extended. Try to assess importance, impact or cause of each shortcoming.</i>	
Student has satisfied the assignment in all points declared in the assignment specification in all points. Regarding the point "Comparative analysis of the performance for CPU and GPU has been carried out.", the point has been satisfied, I would only recommend to addressing this topic more intensely. Actually, in the thesis, there is description of CPU and GPU programming principle for CUDA, however, by "Comparative analysis", reader expects more systematic comparison of the both approaches.	

Technical level	C - good.
<i>Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.</i>	
Initial problem description and overview of used methods is documented is good level of detail. However, I consider the Chapter 2 rather as rather too brief, in several places, explanatory schemas are used in the text (e.g. Figures 2.1 and 2.2), whose individual blocks shall be explained in detail.	
In Section 3, proposed solution is documented on satisfactory level. I appreciate the formal description of the problem.	
In Section 4, regarding the fact, that the thesis is presented in Software Engineering specialization track, I would suggest to extend the documentation of the implemented program by more details, complying with a standard software development lifecycle: requirements, design and specification, implementation details, deployment model and testing and verification.	
Conclusion summarized the achievements in well-structured form, nevertheless is quite brief – here, I would expect more detailed summary of the strengths and weak points of the developed solution.	

Formal and language level, scope of thesis	C - good.
<i>Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.</i>	
Regarding the formal level of the thesis text, the presented report is acceptable. I have several remarks to the text. I would recommend to use smaller font in the report, including the size of the font in the chapter names. In the title of thesis, there is a typo in capitalization of letters. In Figure 1.1, used symbols shall be explained. In the code listings (Fig 3.9, 3.10), screenshot from development environment is used instead of text.	

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Selection of sources, citation correctness**B - very good.**

Present your opinion to student's activity when obtaining and using study materials for thesis creation. Characterize selection of sources. Assess that student used all relevant sources. Verify that all used elements are correctly distinguished from own results and thoughts. Assess that citation ethics has not been breached and that all bibliographic citations are complete and in accordance with citation convention and standards.

Student cites ten resources, mainly textbooks. For diploma thesis, I would recommend usage of slightly more extensive list of resources. During reading of the thesis I have not found any violation of citation ethics.

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Presented thesis has good overall technical and formal quality. In the text, I appreciate the formal description of the presented problem. However, in the description of the implementation, regarding the fact, that the thesis is presented in Software Engineering specialization track, I would suggest to extend the documentation of the implemented program by more details, complying to a standard software development lifecycle.

I evaluate handed thesis with classification grade **C - good**.

Date: **5.6.2018**

Signature: