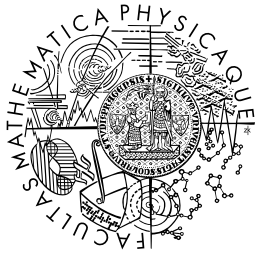

FACULTY
OF MATHEMATICS
AND PHYSICS
Charles University

MASTER THESIS

Michal Bali

Employing GPU to Process Data from Electron Microscope

Department of Software Engineering

Supervisor of the master thesis: RNDr. Martin Kruliš, Ph.D
Study programme: Master of Computer Science
Study branch: Software Systems

Prague 2020

This is not a part of the electronic version of the thesis, do not scan!

I declare that I carried out this master thesis independently, and only with the cited sources, literature and other professional sources. It has not been used to obtain another or the same degree.

I understand that my work relates to the rights and obligations under the Act No. 121/2000 Sb., the Copyright Act, as amended, in particular the fact that the Charles University has the right to conclude a license agreement on the use of this work as a school work pursuant to Section 60 subsection 1 of the Copyright Act.

In ..... date ....

Author's signature

Dedication.

Title: Employing GPU to Process Data from Electron Microscope

Author: Michal Bali

Department: Department of Software Engineering

Supervisor: RNDr. Martin Kruliš, Ph.D, Department of Software Engineering

Abstract: Abstract.

Keywords: GPU parallel data image pattern

Contents

Introduction **2**

1 Title of the first chapter **3**
1.1 Title of the first subchapter of the first chapter 3
1.2 Title of the second subchapter of the first chapter 3

2 Title of the second chapter **4**
2.1 Title of the first subchapter of the second chapter 4
2.2 Title of the second subchapter of the second chapter 4

Conclusion **5**

Bibliography **6**

List of Figures **7**

List of Tables **8**

List of Abbreviations **9**

A Attachments **10**
A.1 First Attachment 10

Introduction

1. Title of the first chapter

An example citation: Anděl [2007]

1.1 Title of the first subchapter of the first chapter

1.2 Title of the second subchapter of the first chapter

2. Title of the second chapter

2.1 Title of the first subchapter of the second chapter

2.2 Title of the second subchapter of the second chapter

Conclusion

Bibliography

J. Anděl. *Základy matematické statistiky.* Druhé opravené vydání. Matfyzpress, Praha, 2007. ISBN 80-7378-001-1.

List of Figures

List of Tables

List of Abbreviations

A. Attachments

A.1 First Attachment