

VIENNA UNIVERSITY OF TECHNOLOGY

192.137 HEURISTIC OPTIMIZATION TECHNIQUES

TU WIEN ALGORITHMICS AND COMPLEXITY GROUP

Programming Project 1

Authors:

Tobias SLOVIAK
01204691

Camilo TELLO FACHIN
12127084

Supervisors:

Prof. Dr. Günther RAIDL

Dipl. Ing. Enrico IURLANO

Dipl. Ing. Laurenz TOMANDL

November 15, 2023



TECHNISCHE
UNIVERSITÄT
WIEN

Vienna University of Technology

Contents

1	Introduction	2
2	Generic Chapter Title 2	3
3	Generic Chapter Title 3	4
	References	4

To Do's

- either make framework work or create new framework
- analyze locks in lecture slides and in paper:
 - – Test-and-Set Lock
 - Test-and-Test-and-Set Lock
 - Ticket Lock
 - Array Lock
 - CLH Lock
 - MCS Lock
 - Hemlock (from paper..)
- in the lectureslides from the project it says:
 - – Benchmark the following two under various scenarious, meaning low/high contention
 - Benchmark Throughput (probably locks-unlocks performed per time)
 - Benchmark Latency
 - Benchmark for fairness, we have to think of some number to measure fairness, maybe lock-s/unlocks achieved per thread

1 Introduction

2 Generic Chapter Title 2

Here we will see the text from Iris and of the Manul. This should compile on its own now.

3 Generic Chapter Title 3