



UNIVERSITY OF GOTHENBURG

Implementing incremental and parallel parsing

A subtitle that can be rather long

Master of Science Thesis in Computer Science

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Abstract

This thesis shows an incremental implementation of everything

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Chapter 1

Background

1.1 Introduction

Something like a motivation on why this is interesting at all.

1.2 Context-free grammars

A description of what context-free grammars are and perhaps something about CNF as well.

1.3 Parsing

What is parsing?

1.4 Dependently typed programming

What is dependently typed programming, and how can it be used in Haskell.

1.5 The LexGen project

Shortly describe LexGen and its relevance.

Chapter 2

Project

2.1 Problem description

2.2 Delimitations

2.3 Methodology

Chapter 3

Implementation

3.1 BNFC

3.1.1 Merging matrices

3.2 Parser

3.3 Testing

Chapter 4

Results

4.1 Lexer generator

4.2 Parser generator

Chapter 5

Discussion

5.1 Obstacles

5.2 Improvements

5.3 Future work