

SCALING A RECONFIGURABLE DATAFLOW ACCELERATOR

A DISSERTATION

SUBMITTED TO THE DEPARTMENT OF COMPUTER SCIENCE

AND THE COMMITTEE ON GRADUATE STUDIES

OF STANFORD UNIVERSITY

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS

FOR THE DEGREE OF

DOCTOR OF PHILOSOPHY

Yaqi Zhang

April 2020

# Abstract

This thesis tells you all you need to know about life, the universe, and everything.

# Acknowledgements

I would like to thank my mother and the little green men from Mars.

# Contents

<b>Abstract</b>	<b>iv</b>
<b>Acknowledgements</b>	<b>v</b>
<b>1 Introduction</b>	<b>1</b>
<b>2 Background</b>	<b>2</b>
2.1 Plasticine . . . . .	2
2.2 Spatial . . . . .	2
<b>3 Architecture</b>	<b>3</b>
<b>4 Compiler</b>	<b>4</b>
<b>5 Conclusions</b>	<b>5</b>
<b>A Appendix</b>	<b>6</b>

# List of Tables

# List of Figures

# Chapter 1

## Introduction

# Chapter 2

## Background

### 2.1 Plasticine

### 2.2 Spatial



## Chapter 3

### Architecture

# Chapter 4

## Compiler

# Chapter 5

## Conclusions

18 For I testify unto every man that heareth the words of the prophecy of this book, If any man shall add unto these things, God shall add unto him the plagues that are written in this book:

19 And if any man shall take away from the words of the book of this prophecy, God shall take away his part out of the book of life, and out of the holy city, and from the things which are written in this book.

# Appendix A

## Appendix

18 For I testify unto every man that heareth the words of the prophecy of this book, If any man shall add unto these things, God shall add unto him the plagues that are written in this book:

19 And if any man shall take away from the words of the book of this prophecy, God shall take away his part out of the book of life, and out of the holy city, and from the things which are written in this book.