

BSc thesis

Zeimer

March 2019

Abstract

This is a simple paragraph at the beginning of the document. A brief introduction to the main subject.

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1 TODO

1. Abstract.
2. Introduction: functional programming, formally verified programming and proving.
3. Approaches to computational effects: chaos, ML-style, monads, algebraic effects.
4. A description of the inner workings of the library: design choices, file structure, implementation.
5. Examples: some from Just Do It, maybe some custom ones.
6. Safety: some theorems and proofs.
7. Theoretical comparison of the ease of use with Haskell and Idris.
8. Practical comparison with MERC.
9. Cite some literature: some Coq papers, Moggi, Just Do It, Experimenting with Monadic Equational Reasoning in Coq
10. Technical matters:
 - (a) Mention where's the implementation and put it to Coq's repository of user libraries.
 - (b) Installation guide.
 - (c) Tools: why no ssreflect?
 - (d) Documentation (it's in the source code).

2 Introduction

This is the first section.

Unnumbered Section

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3 Second Section

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