Zenon reference manual

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Introduction

Zenon is an automatic theorem-prover whose main claim to fame is that it produces actual proofs of theorems. Correctness is an explicit non-goal in the design of Zenon: the proof output needs to be checked by another program before the theorem is considered proved. As a consequence, Zenon is not designed for direct use by humans, but rather for interfacing into formal proof systems, such as interactive proof assistants and non-interactive proof checkers.

This document gives a detailed description of all the information needed by users of Zenon. Chapter 2 describes how to compile and install Zenon from source code. Chapter 3 describes all the command-line options accepted by Zenon. Chapter 4 describes the native input syntax of Zenon; chapter 5 describes the TPTP input syntax; chapter 6 describes the Coq-style input syntax. Chapter 7 describes the error and warning messages that Zenon may output when searching for a proof.

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