Artifact - Historia: Refuting Callback Reachability with Message-History Logics

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1 INTRODUCTION

This document explains the artifact for the Historia paper [1]. The goal of this document is to first give a set of instructions for reproducing the experimental results and then give a technical explanation of how the implementation connects to the technical contributions.

2 PREREQUISITES - RUNNING THE HISTORIA DOCKER CONTAINER

We have configured the experiments to be run within a Docker container provided with this artifact. This Docker file may be found in the root directory of this archive and is labeled `historia.docker`. Please follow the instructions to install docker from https://docs.docker.com/engine/install/.

Importing the docker container can be done with the following command.

```
docker import historia.docker
```

The docker container may be run with the following command. [**TODO:** *expose web port and swap with jupyter command*]

```
docker run --memory=8G --memory-swap="16G" --rm -it historia bash
```

All subsequent steps may be done through the web interface at http://localhost:8080.

3 REPRODUCING THE HISTORIA RESULTS

In this section, we explain how to generate the tables shown in the evaluation section. [**TODO:** *system cfg and slowness adding to timeouts*]

3.1 Running RQ1

3.2 Running RQ2

REFERENCES

[1] Shawn Meier, Sergio Mover, Gowtham Kaki, and Bor-Yuh Evan Chang. 2023. Historia: Refuting Callback Reachability with Message-History Logics.. In *Object-Oriented Programming Systems, Languages, and Applications (OOPSLA)*.

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