Title

Redesigning CHIML: Orchestration Language for Chimera-Framework

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Abstract

Component Based Software Engineering (CBSE) has been proven to be quite effective to deal with software complexity. Nowadays developers prefer to build micro-services rather than single monolithic application. Several SOA approaches like REST API, GraphQL, and BPEL are commonly used by developers. However, those mechanism heavily rely on web services. Although this dependency is quite normal in any modern achitecture, a simpler mechanism with less dependency is still expected. Especially in a stand-alone machine. Previously, a YAML based orchestration language was developed for Chimera-Framework (A language agnostic framework for stand-alone and distributed computing). In this paper, we refine the orchestration language to make it more readable and more compact.

Introduction

Background

Research Question

How to make an orchestration language for Chimera-Framework that is:

- Easily readable
- Compact and easy to write
- Able to compose scripts and executable files instead of web services

Literature Survey

Service Orientation Architecture

Orchestration And Choreography

REST API

BPEL

GraphQL

Chimera Framework

CHIML

Conclusion

Experiment

$$\int_5^4$$