Chimera: Agnostic Language Component Based Framework using NodeJS and CLI

Go Frendi Gunawan
STIKI Malang
Malang, Indonesia
Email: frendi@stiki.ac.id

Mukhlis Amien
STIKI Malang
Malang, Indonesia
Email: amien@stiki.ac.id

Jozua Ferjanus Palandi
STIKI Malang
Malang, Indonesia
Email: jozuafp@stiki.ac.id

***Abstract*—Component Based Software Engineering (CBSE) is a popular topic in Software Engineering. The main advantage of CBSE is separation of components. A single component will only focus on a single task or related collection of tasks. Allowing software developer to reuse the component for other use-cases. By using this approach, software developer doesn't need to deal with spaghetti code. Several approaches has been developed in order to achieve ideal CBSE. The earliest implementation was unix pipe and redirect, while the newer approach including CORBA, XML-RPC, and REST. Our framework, Chimera, was built on top of Node JS. *Chimera allows* developer to build pipe flow in a chain (a YAML formatted file) as well as defining global variables. Compared to unix named and unnamed pipe, this format is easier and more flexible. On the other hand, unlike XML-RPC, REST, and CORBA, chimera doesn't enforce users to use http protocol.**

***Keywords*—Chimera, Language Agnostic, Component-Based Software Engineering, Node JS, CLI.**

I. Introduction

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper. [1]

$$p(C_k, x_1, \ldots, x_n) \tag{1}$$

$$E(v, h) = -b'v - c'h - h'Wv \tag{2}$$

Listing 1. Contoh listing

```
public static void main(String[] args) {
        System.out.println("Hello World");
}
```

Fungsi energi $E(v, h)$ pada RBM didefinisikan sebagai persamaan 2.

Fig. 1. Ice Giant

A. Subsection Heading Here

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

II. Conclusion

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra

sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

APPENDIX A
PROOF OF THE FIRST ZONKLAR EQUATION

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

ACKNOWLEDGMENT

The authors would like to thank...

REFERENCES

[1] Feilhauer, T. and Sobokta, M., DEF - A Programming Language Agnostic Framework and Execution Environment for The Parallel Execution of Library Routines, Journal of Cloud Computing: Advances, Systems and Applications (2016) 5:20

[2] Conway, T., Parallel Processing on the Cheap: Using Unix Pipes to Run SAS Programs in Parallel, Sugi 28, Seattle, Washington, March 30 - April 2, 2003

[3] Mcilroy, M. D., Mass Produced Software Components, Report on a conference sponsored by the NATO SCIENCE COMMITTEE, Garmisch, Germany, 7th to 11th October 1968