Explore Skywriting With CIEL

Chung Leung, LAM

Brief Introduction

- **Skywriting**
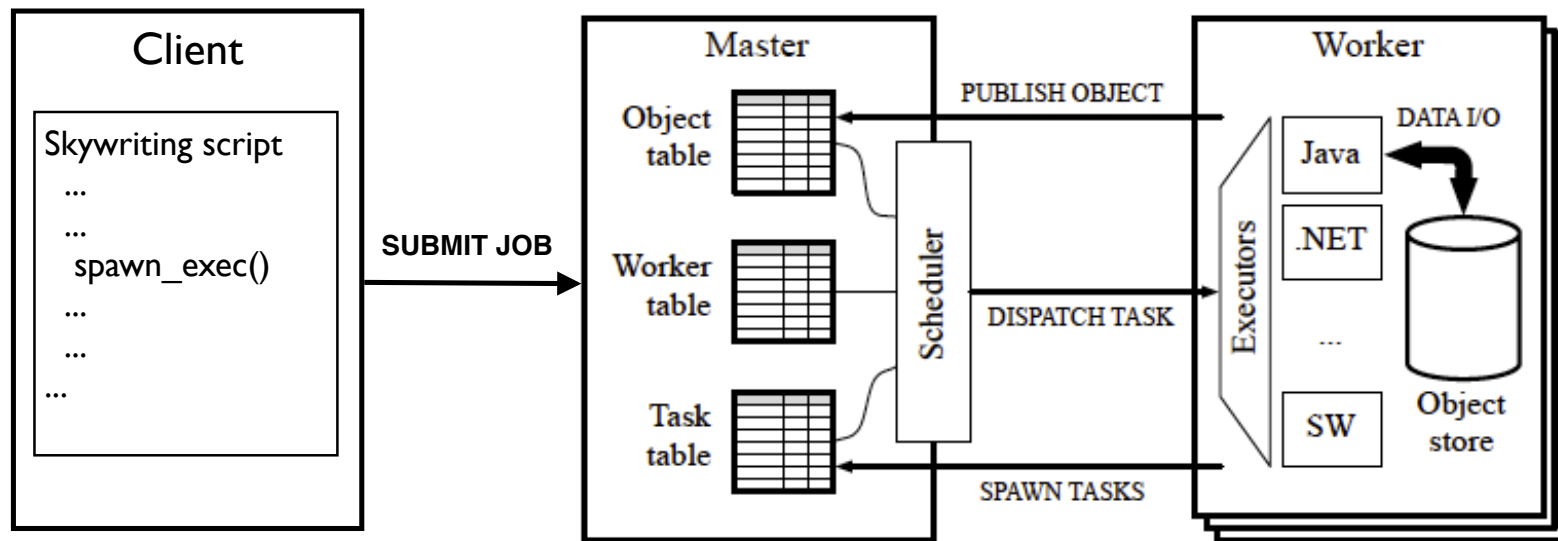
  - A script language for describing distributed computation

  - Able to express arbitrary data-dependent control flow using **while loops** and **recursive functions**

- **CIEL**

  - An universal execution engine for distributed data-flow programs

  - Running the Skywriting scripts

Why study them?

- A new language for cloud computing

- Compare and contrast with existing systems

- General language benchmarking

Progress

- Setup and run CIEL on signal machine and LAN

- Explore and run the included examples

- Learning new programming languages

- Find out how CIEL invoke other language's runtime

- Writing a simple algorithm in various language

Findings and Challenges

- Cloud computing

- Details of Skywriting and CIEL

- Relation between Skywriting and CIEL

- How CIEL map its primitive with existing language

- Writing complex algorithm using the language that is new to me

Explore Skywriting And CIEL