

The Performative Design of Distributed Storage Agents

Zhu Yong^{1,2}, Zhang Jiangling²

¹Wuhan Institute of Science and Technology, Wuhan, 430073, China

²Huazhong University of Science & Technology, Wuhan, 430074, China

Email: zh8871@public.wh.hb.cn zy@wuse.edu.cn **Tel:** 027-62318126

ABSTRACT

The distributed storage aims at the high performance and high availability. Data block is guaranteed to access in high speed and dependably in bottom layer of volume management, and data structure of efficiency and security is implemented in the middle layer of file system. The resource is redistributed by dynamic process control and load data collection through distributed storage agents.

The model of distributed storage management based on agents with autonomy and social ability in cooperative work for heterogeneous sources is presented in the paper. And the objective function is setup to optimize the resource scheduler. Finally, the implementation of agents and their communication performative in distributed environment is put forward.

Keywords: Distributed Storage, Agent, Performative