

## A Report of Big-Data Processing and Operation of the NICT Science Cloud

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This paper is to propose a cloud system for science, which has been developed at NICT (National Institute of Information and Communications Technology), Japan. The NICT science cloud is an open cloud system for scientists who are going to carry out their informatics studies for their own science.

The NICT science cloud is not for simple uses. Many functions are expected to the science cloud; such as data standardization, data collection and crawling, large and distributed data storage system, security and reliability, database and meta-database, data stewardship, long-term data preservation, data rescue and preservation, data mining, parallel processing, data publication and provision, semantic web, 3D and 4D visualization, out-reach and in-reach, and capacity buildings.

In the present talk we discuss the basic concept of the NICT Science Cloud: (1) data transfer and crawling, (2) data preservation and stewardship and (3) data processing and visualization. After brief introductions of several functions and tools for them, we discuss systems via mash-up of these technologies, which are for practical research works.

ISOSIM-L処理:サイエンスクラウドでTorque/Maui  
ジョブ投入環境整備・19万を超えるタスクを分割投  
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