## **Building an Engine for Big Data**

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## Abstract

IT program in Japan to build powerful engine for big data was launched. Quite recently the initial version is commercialized. This presentation will give a brief overview of the project. Also some of the potential applications will be introduced.

Categories & Subject Descriptors: H.2.8 Database applications: Subjects: Data mining

Author Keywords: Big Data; Search Engine

## Bio

Masaru Kitsuregawa is the recipient of the 2009 SIGMOD Edgar F. Codd Innovations Award for contributions to high-performance database technology. Kitsuregawa made major contributions to the development of hash-join algorithms, which significantly improved the performance of join operations in relational database systems. That work has influenced related research in areas such as query execution, plan optimization and dynamic query-workload balancing, as well as the development of commercial database products. He implemented the hash-based approach on a variety of platforms, including the Functional Disk System and multi-node PC clusters, demonstrating its substantial advantages through detailed evaluations. He has also applied hash-based strategies to parallel association mining and showed its effectiveness there. His contributions in the hardware area include a high-speed sorting system with a sophisticated memory management algorithm. That work was eventually commercialized in collaboration with colleagues, and won the Datamation sort benchmark in 2000.

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