Make IT Simple, Make Business Agile

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Contents

1. Huawei Introduction
2. Analysis of X in 1 Big Data Technology
3. Case Study
Worldwide Expertise

170+ Countries

28 Joint Innovation Centers

14 Regional HQs

45 Training Centers

16 R&D Centers

150,000 Employees Worldwide
Contents

1. Huawei Introduction
2. The Data Wave in Cloud Era
3. X in 1 Big Data Technology
Changing our World in Many Ways
Data Volume Has Increased Exponentially

 Variety
 Volume
 Velocity
 = VALUE?

Big Data

Scientific Instruments

Mobile Devices

Internet / Social Media

Sensor technology and networks
Capacity vs. Performance

Capacity

Performance
Performance Bottlenecks That Must Be Resolved for Big Data

- **Computing bottleneck** = Single Server System
- **Storage bottleneck** = Dual-Controller Storage Array
- **Network bottleneck** = \( \text{GE, Fibre Channel} \) \( \text{Fibre Channel} \)
- **Database bottleneck** = Relational database

- Cluster
  - Scale-Out Expansion
  - Block Virtualization
  - Distributed file system

\[ \text{10 GE, Fibre Channel, IB, 10 GE, SAS, IB} \]

\[ \text{Distributed database, No SQL database} \]
Contents

1. Huawei Introduction
2. The Data Wave in Cloud Era
3. X in 1 Big Data Technology
To Extract Value from Big Data We Need To

- Capture
- Hold & Store
- Velocity
BIG DATA
Requires Innovation Tools, Ecosystem and Infrastructure
What is expected from Efficient Big Data Platform?

Big Data Infrastructure must achieve **high efficiency** besides meeting the requirements of **capacity**, **performance** and **diversity of data**.
Huawei OceanStor 9000 Innovation

- Quick data import
- Support for JDBC and ODBC
- SQL 92/2003
- Data compression

- Linear expansion from 3 to 288 nodes
- NFS/CIFS interfaces
- HDFS interface
- S3 Interface

- Distributed architecture, Scale out NAS, Scale out DB, Scale out Backup, X in 1 Big Data Appliance
- Structure & Unstructured data in one pool, information life cycle management, archiving
THANK YOU

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