

Lowering Data Management Software and Hardware Costs

IBMDiscoveryDays2011



Disclaimer: Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

Complexity of Enterprise Environments Continues to Grow Managing data is a challenge



Common strategies for addressing growing data management costs

- 1. Leverage Consolidation
- 2. Improve Database Performance & utilization
- **3.** Improve IT staff productivity



Cost Efficiency

1. Leverage Consolidation

Consolidation Options from IBM - Sized to Fit, not "one size fits all"

Custom Software, **Flexible Integrated** Netezza Hardware & Services **Systems Appliances** IBM DB2, IBM Informix IBM Smart Analytics System IBM Netezza TwinFin IBM InfoSphere IBM pureScale Application IBM Netezza Skimmer IBM Cognos, IBM SPSS System IBM Power, x and z Simplify - Accelerate Value - Reduce Cost **Systems Flexibility** Simplicity The right mix of flexibility and simplicity

The IBM Advantage - *Migration Technology*



IBM has reduced the cost, risk and time of database migration

2,700

Customers switched to IBM in the last 4 years

2,100

Successful migration factory consolidations and migrations

© 2011 IBM Corporation

DB2 offers Breakthrough SQL Compatibility Technology

IBM has developed database migration technologies with strategic partners to deliver ground-breaking solutions to port applications built for Oracle and Sybase databases

- ✓ Faster, easier migration from Oracle database and Sybase ASE
- ✓ Lower Training Costs
- ✓ No Application Rewrites
- ✓ Better Performance



C The migration went without a hitch, thanks to the teamwork between IBM and Edwards and to the reliability of the DB2 database platform



,

-- Mike Donnelly



Lab Tests Show 98% Compatibility with Oracle PL/SQL Statements

- Internal IBM Study
- Variety of participants
 - Different industries
 - Different solutions
 - Different app sizes
 - Different countries
- PL/SQL supported
 - >750,000 lines of code
 - Average of 98%



Supported Statements Unsupported Statements



2. Improve Database Performance and Utilization

- IBM offers reliable, highly available solutions for 99.999% up time and enterprise growth
- IBM leads in numbers of days of leadership across major industry benchmark results



Source: IBM-maintained records of performance benchmark leadership. TPC-C and SAP 3-Tier SD leadership days are up to and including 22 Feb 2010. SPECjEnterprise2010 up to 05 Mar 2010.

More TPC-C performance per core than any system in the industry



Best results listed for IBM POWER, HP, and Sun/Oracle systems over 1M tpmC. Source: http://www.tpc.org as of 4/1/10. See Power 780 benchmark details for specific results.

© 2011 IBM Corporation



Why DB2 pureScale is better than Oracle RAC

Throughput efficiency declines as you add nodes to Oracle RAC

 Higher levels of scalability and superior availability

 Better concurrency during regular operations and on failure



Why DB2 pureScale is better than Oracle RAC

Near-linear scale-out efficiency of DB2 pureScale



© 2011 IBM Corporation

IBMDiscoveryDays2011

DB2 leads industry performance and reliability on production systems

- Solitaire Whitepaper



3. Improve IT Staff Productivity

Easy of use: DB2 vs. Oracle Database complexity analysis

- DB2 holds a significant advantage in all of the six common DBA activities
- DB2 complexity advantage translates into higher DBA productivity



Complexity analysis summary

© 2011 IBM Corporation

IBMDiscoveryDays2011

IBM

Organizations need a strategy to manage application data From requirements to retirement

- Developing models and code to store and access enterprise data including the configuration of data for test environments
- Employ effective test data management practices to build and test applications
- Optimizing performance through identification of bottlenecks and building the right strategy for managing applications and data growth
- Implementing a consistent process for retiring or consolidating applications



Common Tools To Manage All Databases Control Costs, Improve Performance, Reduce Risks





& Test



Operate & Optimize



Simplify design, development & management of applications that require database access

- IBM InfoSphere Optim Development Studio
- IBM InfoSphere Optim pureQuery Runtime
- Create "right-size" production-like environments for application testing, while protecting sensitive information within
 - IBM InfoSphere Optim Test Data Management Solution
 - IBM InfoSphere Optim Data Masking Solution
- Manage data growth & improve performance by intelligently archiving historical data
 - IBM InfoSphere Optim Data Growth Solution
- Retire redundant & legacy applications, while preserving access to the information for data retention compliance
 - IBM InfoSphere Optim Solution for Application Retirement

Cost Efficiency: 3-Year TCO and initial investment comparison Oracle Quarter Rack Exadata vs. Small pureScale Application System

3 Yr TCO Savings with IBM over Oracle = 71% Investment Cost Savings with IBM over Oracle = 70%

Savings with IBM pureScale \$2,330,378 or 70%

Savings with IBM pureScale \$1,666,447 or 70%





© 2011 IBM Corporation

Summary

If You Need To...



- Consolidate heterogeneous database environments
- Get the most out of IT infrastructure
- Lower license and support costs



IBM Can Help By...

- Consolidating your database environments and lowering license, support costs
- Increasing the performance and scalability of your applications
- Migrating your applications, databases and warehouses quickly and with minimal risk



Take Action Now!

No-charge offers to help you get started:

- Smarter Systems Consolidation Evaluation
- The Server Makeover Analysis
- IBM Migration Workshops and Toolkit
- Database Migration Analysis
 - Tool analyses PL/SQL, indicating out-ofthe-box compatibility
 - Compatibility levels are typically greater than 90%
- For additional information including white papers and demos, please visit <u>www.ibm.com/breakfree</u>





Thank You!

ibm.com/smartersystems



Simply put, IBM is making systems smarter.

Disclaimer

© Copyright IBM Corporation 2011. All rights reserved.

U.S. Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

THE INFORMATION CONTAINED IN THIS PRESENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. WHILE EFFORTS WERE MADE TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION CONTAINED IN THIS PRESENTATION, IT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. IN ADDITION, THIS INFORMATION IS BASED ON IBM'S CURRENT PRODUCT PLANS AND STRATEGY, WHICH ARE SUBJECT TO CHANGE BY IBM WITHOUT NOTICE. IBM SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING OUT OF THE USE OF, OR OTHERWISE RELATED TO, THIS PRESENTATION OR ANY OTHER DOCUMENTATION. NOTHING CONTAINED IN THIS PRESENTATION IS INTENDED TO, NOR SHALL HAVE THE EFFECT OF, CREATING ANY WARRANTIES OR REPRESENTATIONS FROM IBM (OR ITS SUPPLIERS OR LICENSORS), OR ALTERING THE TERMS AND CONDITIONS OF ANY AGREEMENT OR LICENSE GOVERNING THE USE OF IBM PRODUCTS AND/OR SOFTWARE.

IBM, the IBM logo, ibm.com, IBM Cognos, and IBM SPSS, are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. If these and other IBM trademarked terms are marked on their first occurrence in this information with a trademark symbol (® or [™]), these symbols indicate U.S. registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also be registered or common law trademarks in other countries. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at <u>www.ibm.com/legal/copytrade.shtml</u>

Other company, product, or service names may be trademarks or service marks of others.