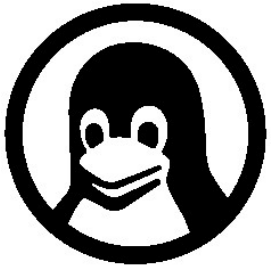
IBM Software Group



IBM DB2 Universal Database - Performance Leader on Linux

August 13, 2003

DB2 Information Management Software

e business on demand software

Facts about DB2 for Linux Performance Leadership

- ✓1st Linux database to publish industry standard DSS benchmark (TPC-H, 2001)
- ✓1st 64-bit Linux database to publish DSS benchmark (TPC-H, 2003)
- ✓1st database on Linux to publish OLTP application benchmark (SAP SD, 1999)
- ✓Database with most industry standard benchmarks published on Linux
- ✓Performance leader for 100GB TPC-H (clustered and non-clustered*)
- ✓Performance leader for 300GB TPC-H (clustered and non-clustered*)
- ✓Price/Performance leader for 100GB TPC-H (clustered*)
- ✓Price/Performance leader for 300GB TPC-H (clustered*)

*as of July 30, 2003

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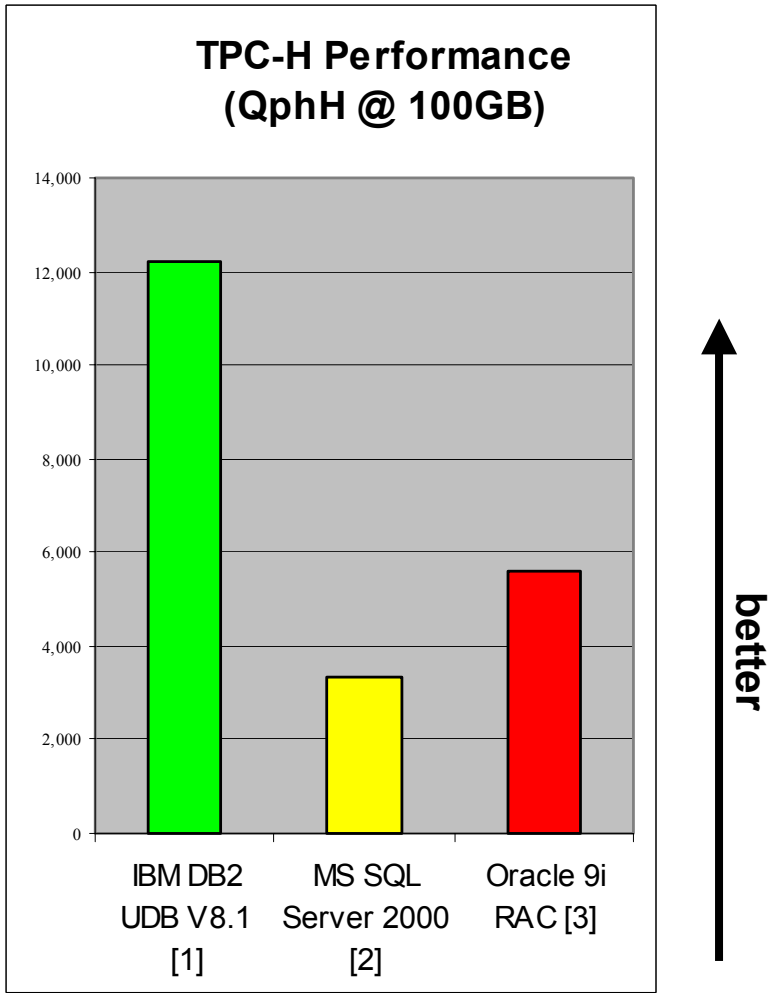
DB2 on Linux delivers more than **double** Oracle's performance



Results current as of August 13, 2003. [1] 12216 QphH@100GB and $71 per QphH@100GB avail 11/08/03 [2] 3346 QphH@100GB and $65 per QphH@100GB avail 04/24/03[3] 5578 QphH@100GB and $358 per QphH@100GB avail 07/15/02 Withdrawn as of 08/26/03. Visit www.tpc.org for details. TPC-H and QphH are trademarks of the Transaction Processing Performance Council. Oracle, Oracle9i are registered trademarks of the Oracle Corporation. Microsoft is a registered trademark of the Microsoft Corporation. Other company, product or service names may be trademarks or service marks of others.

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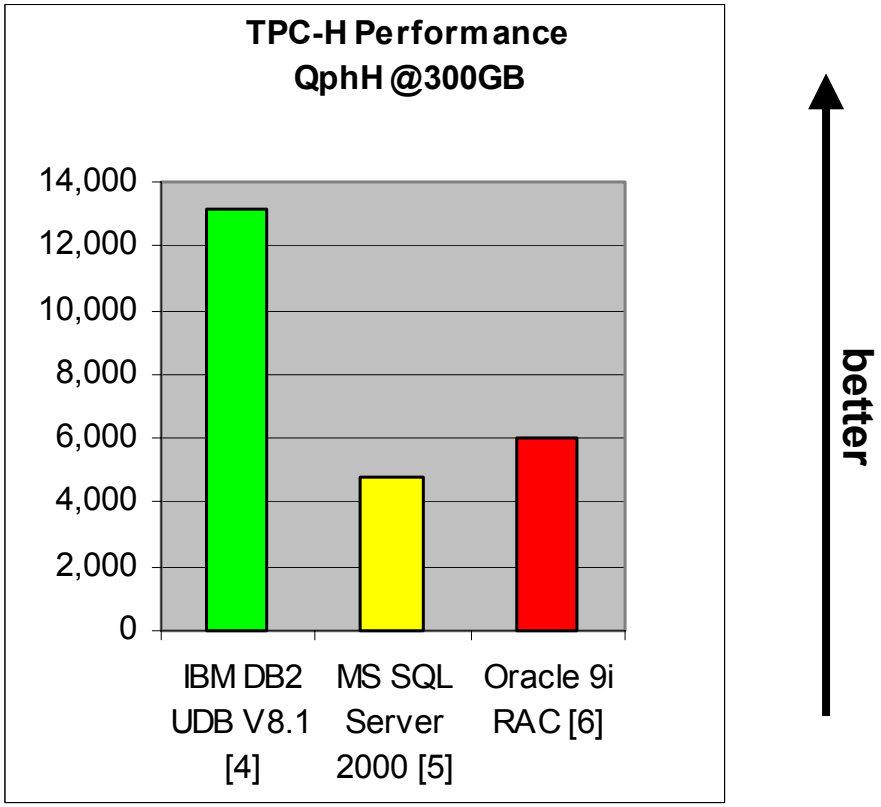
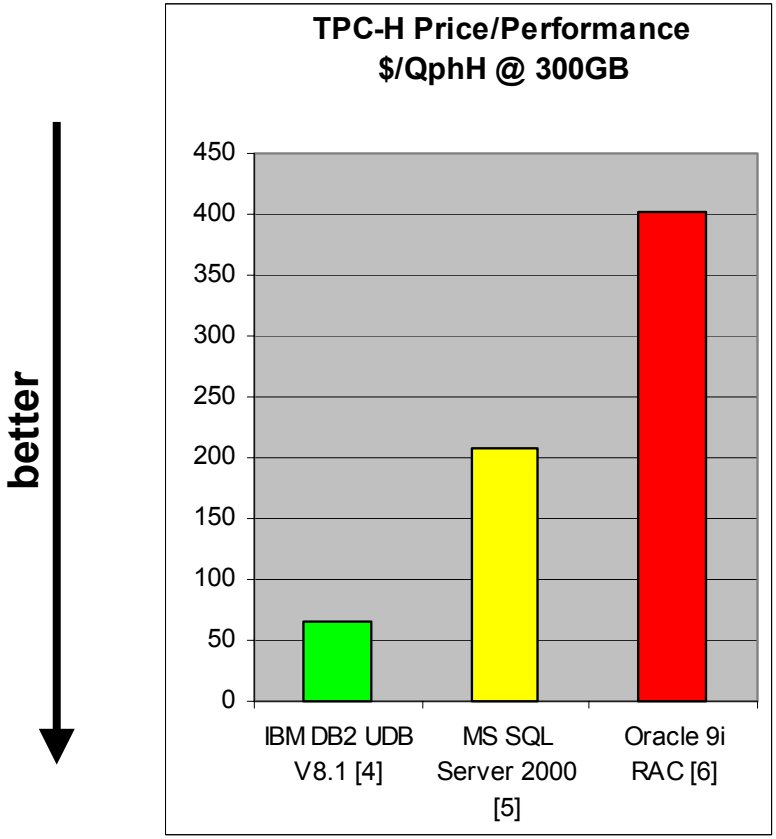
Even better performance with more data



Results current as of August 13, 2003. [4] 13914 QphH@300GB and $65 per QphH@300GB avail 11/08/03 [5] 4774 QphH@300GB and $208 per QphH@300GB avail 03/31/03[6] 5976 QphH@300GB and $401 per QphH@300GB avail 06/01/02 Withdrawn as of 08/26/03 . TPC-H and QphH are trademarks of the Transaction Processing Performance Council. Oracle, Oracle9i are registered trademarks of the Oracle Corporation. Microsoft is a registered trademark of the Microsoft Corporation. Other company, product or service names may be trademarks or service marks of others.

Take a look at the cost difference!



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TPC-H @ 100GB

Database	IBM DB2 UDB V8.1 [1]	MS SQL Server 2000 [2]	Oracle 9i RAC [3]
Performance (QphH)	12,216	3,346	5,578
Price/Performance ($/QphH)	71	65	358
Performance (QphH) per CPU	764	418	349
Price/Performance ($/QphH) per CPU	4.375	8.125	22.375
Operating System	SuSE Linux ES 8	MS Windows 2003 ES	Tru 64 Unix V5.1A
# Processors	16	8	16
Processor Type	Opteron 2Ghz	Xeon MP 2,0Ghz	Alpha 1000 MHz
Total System Cost ($)	851,953	216,782	1,991,562
Memory	48GB	16GB	128GB
Cluster	Y	N	Y
#Nodes	8	N/A	4

Results current as of August 13, 2003. [1] 12216 QphH@100GB and $71 per QphH@100GB avail 11/08/03 [2] 3346 QphH@100GB and $65 per QphH@100GB avail 04/24/03[3] 5578 QphH@100GB and $358 per QphH@100GB avail 07/15/02 Withdrawn as of 08/26/03. Visit www.tpc.org for details. TPC-H and QphH are trademarks of the Transaction Processing Performance Council. Oracle, Oracle9i are registered trademarks of the Oracle Corporation. Microsoft is a registered trademark of the Microsoft Corporation. Opteron is a trademark of the AMD Corporation. Xeon is a registered trademark of the Intel Corporation. UNIX is a registered trademark of The Open Group in the United States and other countries. Other company, product or service names may be trademarks or service marks of others.

TPC-H 300GB

Database	IBM DB2 UDB V8.1 [4]	MS SQL Server 2000 [5]	Oracle 9i RAC [6]
Performance (QphH)	13,194	4,774	5,976
Price/Performance ($/QphH)	65	208	401
Operating System	SuSE Linux ES 8	MS Windows 64-bit	Tru 64 Unix V5.1A
# Processors	16	16	16
Processor Type	Opteron 2Ghz	Itanium 2 1Ghz	Alpha 1000 MHz
Total System Cost ($)	851,953	988,328	2,390,963
Memory	48GB	64GB	128GB
Cluster	Y	N	Y
#Nodes	8	N/A	4

Results current as of August 13, 2003. [4] 13914 QphH@300GB and $65 per QphH@300GB avail 11/08/03 [5] 4774 QphH@300GB and $208 per QphH@300GB avail 03/31/03[6] 5976 QphH@300GB and $401 per QphH@300GB avail 06/01/02 Withdrawn as of 08/26/03. Visit www.tpc.org for details. TPC-H and QphH are trademarks of the Transaction Processing Performance Council. Oracle, Oracle9i are registered trademarks of the Oracle Corporation. Microsoft is a registered trademark of the Microsoft Corporation. Opteron is a trademark of the AMD Corporation. Xeon is a registered trademark of the Intel Corporation. UNIX is a registered trademark of The Open Group in the United States and other countries. Other company, product or service names may be trademarks or service marks of others.