

IBM announces World-Record analysis phase result on the SAP BW Standard Application Benchmark using an xSeries 346 cluster running DB2 UDB on SUSE Linux

October 19, 2005 ... IBM® today announced a record-breaking analysis phase result for the IBM eServer™ xSeries® 346, using IBM DB2® Universal Database and SUSE Linux® on the three-tier SAP® Business Information Warehouse (SAP BW) Release 3.5 Standard Application Benchmark (1), running on the SAP NetWeaver® '04 platform.

The x346 and DB2 achieved throughput of 311,004 query navigation steps per hour in the Analysis Phase, 0.908 seconds average dialog response time, and an average CPU utilization of 30 percent for all 32 servers. Total load throughput measured 168,360,360 rows per hour for the first phase and 6,511,120 rows per hour for the second phase, yielding a total average load throughput of 6,268,687 rows per hour. (2)

The 32-node x346 cluster used 32 Intel® Xeon™ single-core processors at 3.6GHz with 2MB L2 cache per core (1 processor/ 1 core/ 2 threads), 64GB of memory, DB2 UDB 8.2, SUSE Linux Enterprise Server 9 (SLES9), and SAP BW Standard Application Benchmark running SAP NetWeaver '04. This is the first cluster result ever published in an SAP BW benchmark environment.

This result demonstrates the outstanding solution IBM offers to its customers who want to implement advanced business warehouse solutions using Linux clusters and DB2 Universal Database.

The SAP BW Standard Application Benchmark consists of two phases that run consecutively. Step 1 is the Load Phase, which consists of the reading of master data from an external flat file structure and the loading of transactional data from external flat files into the operational data store and the InfoCube. After this, the aggregates are built. Finally statistics and bitmapped indices on the Fact Table and the rollup of aggregates are refreshed. The key figure is throughput of data in rows/hour. Step 2 is the Analysis Phase, which simulates the actions in a Sales and Distribution InfoCube. The key figure is the number of query navigation steps per hour.

Results referenced are current as of October 19, 2005. For the latest SAP results, visit www.sap.com/benchmark.

For information about DB2, visit www.ibm.com/software/data.

(1) SAP Standard Application Benchmarks for SAP BW Releases available prior to 3.0 are not comparable with benchmarks for SAP BW Release 3.0 or later.

(2) This benchmark fully complies with the SAP Benchmark Council regulations and has been audited and certified by SAP AG (certification number 2005043). Details can be obtained from IBM and SAP. The benchmark was performed at Toronto, Ontario, Canada, by IBM engineers.

IBM, the eServer logo, eServer, xSeries, DB2, DB2 UDB, and DB2 Universal Database are trademarks or registered trademarks of International Business Machines Corporation.

Intel and Itanium are trademarks or registered trademarks of Intel Corporation.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

SAP, SAP NetWeaver and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and in several other countries all over the world.