

IBM announces leadership result on Linux using SAP BW 3.5 Standard Application Benchmark

May 6, 2004 ... IBM® today announced a leadership result for the IBM eServer® xSeries® 455 and IBM DB2® Universal Database 8.1 on Linux using the SAP® Business Information Warehouse (SAP BW) Release 3.5 Standard Application Benchmark, running SAP R/3® Enterprise Release 4.70.

The x455 and DB2 achieved measured throughput of 98,424 navigation steps per hour in the Query Phase, 1.279 seconds average dialog response time, and an average CPU utilization of 96 percent for the database server. Total load throughput measured 33,515,065 rows per hour for the first phase and 10,954,707 rows per hour for the second phase, yielding a total average load throughput of 8,256,119 rows per hour. (1)

The x455 used eight 1.5GHz/6MB Intel® Itanium™ 2 processors, 32GB of memory, DB2 UDB 8.1, SUSE Linux SLES 8, and SAP BW Standard Application Benchmark running SAP R/3 Enterprise 4.70. The measured system used an IBM TotalStorage® FAStT700 storage solution.

The SAP BW Standard Application Benchmark consists of two phases that run consecutively (as of SAP BW 3.0). 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 Query Phase, which simulates the actions in an SD InfoCube. The key figure is the number of dialog steps/hour.

Results referenced are current as of May 6, 2004.

For the latest SAP results, visit www.sap.com/benchmark. For information about DB2 visit www.ibm.com/software.

(1) This benchmark fully complies with the SAP Benchmark Council regulations and has been audited and certified by SAP AG (certification number 2004021). Details can be obtained from IBM and SAP. The benchmark was performed at Toronto, Ontario, Canada, by IBM engineers.

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