

CERTIFICATION

SAP Standard Application Benchmarks

The SAP SD standard R/3 Enterprise 4.70 application benchmark performed on May 6, 2004 by Bull in Les Clayes sous Bois, France was certified on June 17, 2004 with the following data:

Number of benchmark users & comp.:	2,230 SD (Sales & Distribution)
Average dialog response time:	1.73 seconds
Throughput:	
Fully processed order line items/hour:	228,000
Dialog steps / hour:	684,000
SAPS:	11,400
Average DB request time (dia/upd):	0.028 sec / 0.038 sec
CPU utilization of central server:	99%
Operating System central server:	Windows Server 2003 Datacenter Edition
RDBMS:	SQL Server 2000
SAP R/3 Release:	4.70
Total disk space:	648 GB

Configuration:

Central server: Bull NovaScale Model 5160, 16-way SMP, Intel Itanium 2, 1.5 GHz, 32 KB L1 cache, 256 KB L2 cache, 6 MB L3 cache, 64 GB main memory

Certification Number. 2004034