

# CERTIFICATION

## SAP Standard Application Benchmarks

The SAP SD standard R/3 Enterprise 4.70 application benchmark performed on December 3, 2003 by Bull in Les Clayes sous bois, France was certified on December 18, 2003 with the following data:

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|--|--|
| Number of benchmark users & comp.:     | 1,150 SD (Sales & Distribution)        |
| Average dialog response time:          | 1.35 seconds                           |
| Throughput:                            |  |
| Fully processed order line items/hour: | 121,670                                |
| Dialog steps / hour:                   | 365,000                                |
| SAPS:                                  | 6,080                                  |
| Average DB request time (dia/upd):     | 0.055 sec / 0.036 sec                  |
| CPU utilization of central server:     | 98%                                    |
| Operating System central server:       | Windows Server 2003 Enterprise Edition |
| RDBMS:                                 | SQL Server 2000                        |
| SAP R/3 Release:                       | 4.70                                   |
| Total disk space:                      | 648 GB                                 |

|                 |  |
|-----------------|--|
| Configuration:  |  |
| Central server: | Bull NovaScale Model 5080, 8-way SMP, Intel Itanium 2, 1.5 GHz, 32KB L1 cache, 256 KB L2 cache, 6 MB L3 cache, 32 GB main memory |

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