

# CERTIFICATION

## SAP Standard Application Benchmarks

The SAP SD standard R/3 Enterprise 4.70 application benchmark performed on October 14, 2004 by HP in Cupertino, CA, USA was certified on November 8, 2004 with the following data:

Number of benchmark users & comp.:	100,000 SD (Sales & Distribution)
Average dialog response time:	1.75 seconds
Throughput:	
Fully Processed Order Line items / hour:	10,210,330
Dialog steps / hour:	30,631,000
SAPS:	510,520
Average DB request time (dia/upd):	0.031 sec / 0.069 sec
CPU utilization of database server:	95%
CPU utilization of application servers:	66% (dia: 66%, upd: 66%, msg/enq: 81%)
Operating System all servers:	HP-UX 11i
RDBMS database server:	Oracle 10g
R/3 Release:	4.70
Total disk space:	9,112 GB

### Configuration:

Database server: HP Integrity Model SD64A, 64-way SMP, Intel Itanium 2, 1.6 GHz, 32 KB L1 cache, 256 KB L2 cache, 9 MB L3 cache, 256 GB main memory

160 Application servers:

155 Dialog/Update servers: HP Integrity Model rx4640, 4-way SMP, Intel Itanium 2, 1.5 GHz, 32 KB L1 cache, 256 KB L2 cache, 6 MB L3 cache, 16 GB main memory

4 Dialog/Update servers: HP Integrity Model rx4640, 4-way SMP, Intel Itanium 2, 1.5 GHz, 32 KB L1 cache, 256 KB L2 cache, 6 MB L3 cache, 8 GB main memory

1 Message/Enq. server: HP Integrity Model rx4640, 4-way SMP, Intel Itanium 2, 1.6 GHz, 32 KB L1 cache, 256 KB L2 cache, 9 MB L3 cache, 16 GB main memory

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