



# SPEC® CINT2006 Result

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## Supermicro Motherboard X7DB3

SPECint®\_rate2006 = 82.4

SPECint\_rate\_base2006 = 79.9

CPU2006 license: 001176

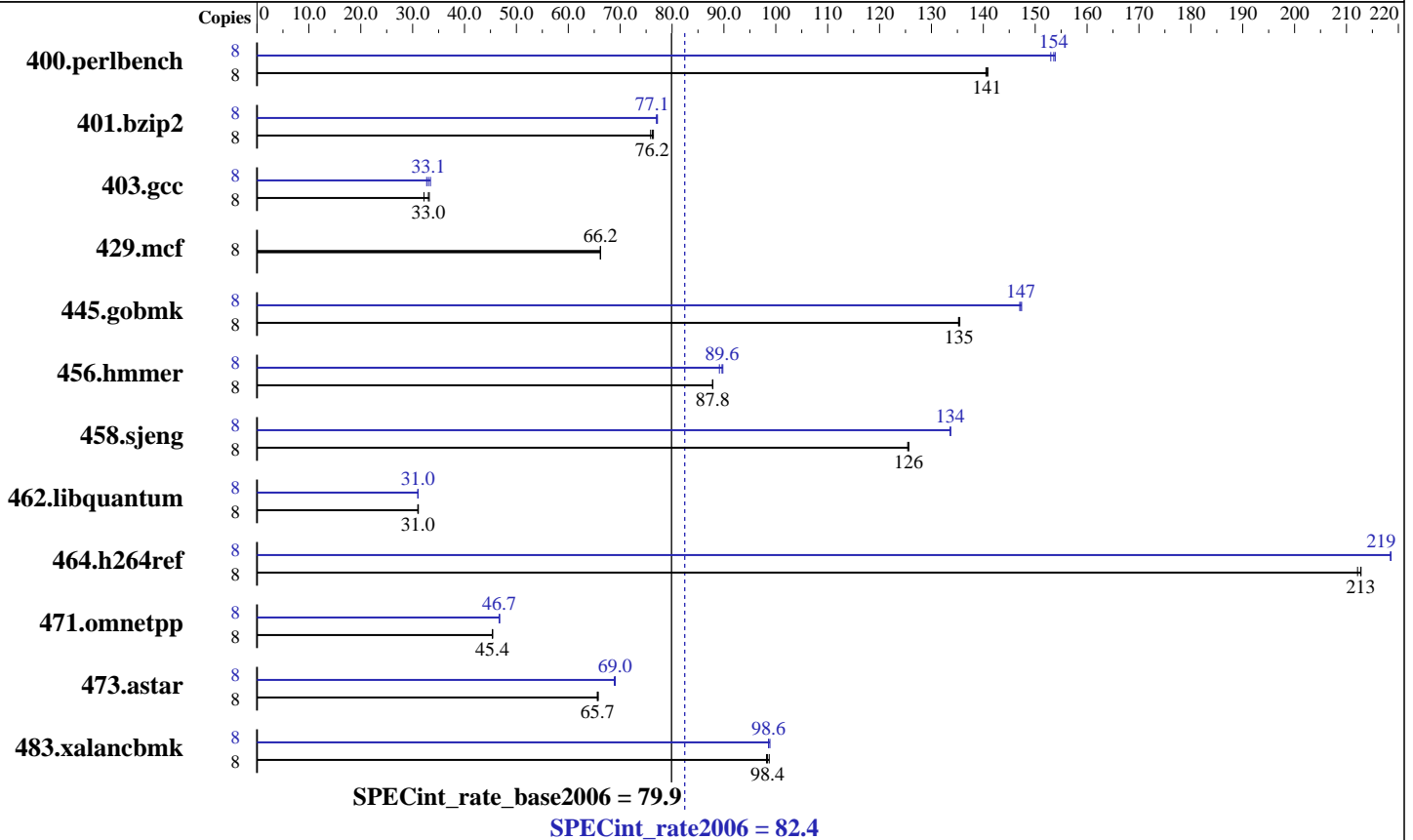
Test sponsor: Supermicro

Tested by: Supermicro

Test date: Apr-2007

Hardware Availability: May-2007

Software Availability: Apr-2007



### Hardware

CPU Name: Intel Xeon X5355  
 CPU Characteristics: 2.66GHz, 1333 MHz bus  
 CPU MHz: 2660  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
 CPU(s) orderable: 1, 2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8 GB (8 X 1GB ECC PC2-5300, CL5, FBDIMM)  
 Disk Subsystem: WD2500YS-01SHB1 250GB SATA II, 7200RPM, 4 \* ST316081 160GB SATA RAID-10  
 Other Hardware: None

### Software

Operating System: Windows Server 2003 Enterprise Edition W/ SP1  
 Compiler: Intel C++ Compiler for IA32 version 9.1  
 Build no 20070322Z  
 Microsoft Visual Studio .Net 2003 (for libraries)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32-bit  
 Peak Pointers: 32-bit  
 Other Software: SmartHeap Library Version 8.0 from <http://www.microquill.com/>



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### Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	556	141	<b>556</b>	<b>141</b>	555	141	8	511	153	<b>509</b>	<b>154</b>	508	154
401.bzip2	8	<b>1013</b>	<b>76.2</b>	1018	75.9	1010	76.4	8	1003	77.0	1000	77.2	<b>1001</b>	<b>77.1</b>
403.gcc	8	2001	32.2	<b>1950</b>	<b>33.0</b>	1939	33.2	8	1926	33.4	1969	32.7	<b>1948</b>	<b>33.1</b>
429.mcf	8	1102	66.2	<b>1102</b>	<b>66.2</b>	1102	66.2	8	1102	66.2	<b>1102</b>	<b>66.2</b>	1102	66.2
445.gobmk	8	<b>620</b>	<b>135</b>	619	135	621	135	8	571	147	<b>570</b>	<b>147</b>	569	147
456.hammer	8	850	87.8	<b>850</b>	<b>87.8</b>	849	87.9	8	<b>833</b>	<b>89.6</b>	837	89.1	831	89.8
458.sjeng	8	772	125	<b>771</b>	<b>126</b>	771	126	8	<b>724</b>	<b>134</b>	724	134	724	134
462.libquantum	8	<b>5342</b>	<b>31.0</b>	5345	31.0	5329	31.1	8	<b>5343</b>	<b>31.0</b>	5345	31.0	5341	31.0
464.h264ref	8	835	212	832	213	<b>832</b>	<b>213</b>	8	<b>810</b>	<b>219</b>	810	219	810	219
471.omnetpp	8	<b>1102</b>	<b>45.4</b>	1102	45.4	1101	45.4	8	1070	46.7	<b>1070</b>	<b>46.7</b>	1070	46.7
473.astar	8	854	65.8	856	65.6	<b>855</b>	<b>65.7</b>	8	813	69.1	<b>813</b>	<b>69.0</b>	816	68.9
483.xalancbmk	8	562	98.2	<b>561</b>	<b>98.4</b>	559	98.7	8	<b>560</b>	<b>98.6</b>	560	98.6	558	98.9

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

### General Notes

Tested systems can be used with CSE-825TQ-R700LPV case,  
To ensure system stability, a 500W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]  
Product description located as of <http://www.supermicro.com/products/motherboard/Xeon1333/5000P/X7DB3.cfm>  
The system bus runs at 1333 MHz

### Base Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99  
  
C++ benchmarks:  
icl -Qvc7.1

### Base Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32  
464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32

### Base Optimization Flags

C benchmarks:  
-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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## Base Optimization Flags (Continued)

C++ benchmarks:  
-fast -Qcxx\_features /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

## Base Other Flags

C benchmarks:  
403.gcc: -Dalloca=\_alloca

## Peak Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99  
C++ benchmarks:  
icl -Qvc7.1

## Peak Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32  
464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32

## Peak Optimization Flags

C benchmarks:  
400.perlbench: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F512000000  
shlw32m.lib -link /FORCE:MULTIPLE  
401.bzip2: Same as 400.perlbench  
403.gcc: Same as 400.perlbench  
429.mcf: basepeak = yes  
445.gobmk: Same as 400.perlbench  
456.hmmmer: Same as 400.perlbench  
458.sjeng: Same as 400.perlbench

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## Peak Optimization Flags (Continued)

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

471.omnetpp: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qcxx\_features  
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

473.astar: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxP -O2 -Qipo  
-Qprec-div- -Qunroll14 -Ob2 -Qsfsalign16 -Qcxx\_features  
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

483.xalancbmk: Same as 471.omnetpp

## Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic91-ia32-flags.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic91-ia32-flags.xml>

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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