



# SPEC® CINT2006 Result

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## Supermicro Motherboard X7DA8+

SPECint®\_rate2006 = 55.6

SPECint\_rate\_base2006 = 53.7

CPU2006 license: 001176

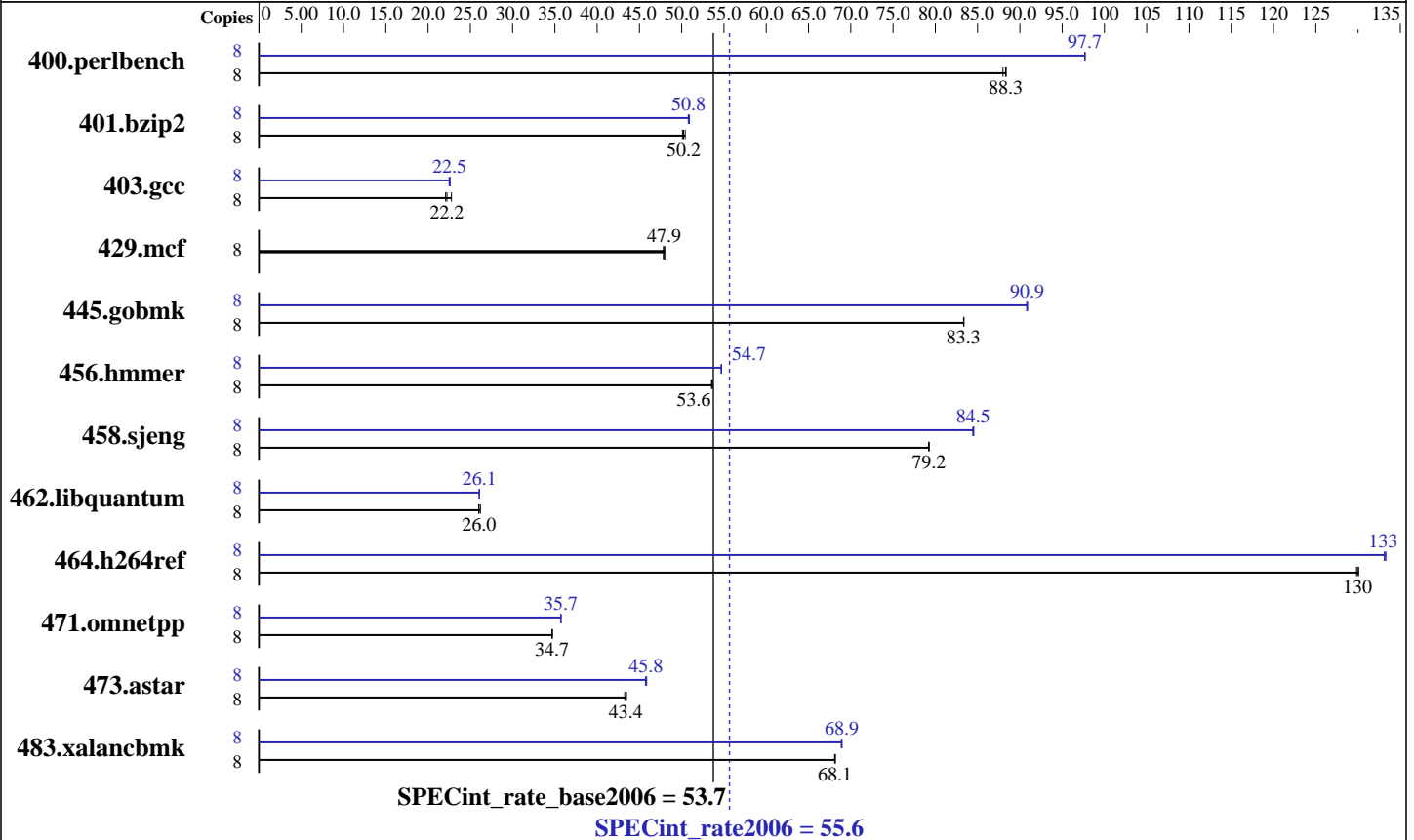
Test sponsor: Supermicro

Tested by: Supermicro

Test date: Apr-2007

Hardware Availability: May-2007

Software Availability: Apr-2007



### Hardware

CPU Name: Intel Xeon L5310  
 CPU Characteristics: 1.60GHz, 1066 MHz Bus  
 CPU MHz: 1600  
 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: 16 GB (8 X 2GB ECC PC2-5300, CL5, FBDIMM)  
 Disk Subsystem: 750GB IDE, 7200RPM  
 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



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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	888	88.0	<b>885</b>	<b>88.3</b>	884	88.4	8	800	97.7	800	97.7	<b>800</b>	<b>97.7</b>
401.bzip2	8	1541	50.1	<b>1537</b>	<b>50.2</b>	1531	50.4	8	1516	50.9	1520	50.8	<b>1519</b>	<b>50.8</b>
403.gcc	8	2828	22.8	2917	22.1	<b>2897</b>	<b>22.2</b>	8	<b>2857</b>	<b>22.5</b>	2847	22.6	2863	22.5
429.mcf	8	1520	48.0	1525	47.8	<b>1522</b>	<b>47.9</b>	8	1520	48.0	1525	47.8	<b>1522</b>	<b>47.9</b>
445.gobmk	8	1007	83.3	<b>1007</b>	<b>83.3</b>	1006	83.4	8	923	90.9	<b>923</b>	<b>90.9</b>	924	90.8
456.hammer	8	<b>1392</b>	<b>53.6</b>	1394	53.5	1392	53.6	8	1364	54.7	1366	54.7	<b>1364</b>	<b>54.7</b>
458.sjeng	8	<b>1221</b>	<b>79.2</b>	1222	79.2	1221	79.3	8	1145	84.6	1147	84.4	<b>1146</b>	<b>84.5</b>
462.libquantum	8	6329	26.2	6380	26.0	<b>6367</b>	<b>26.0</b>	8	<b>6359</b>	<b>26.1</b>	6358	26.1	6365	26.0
464.h264ref	8	<b>1362</b>	<b>130</b>	1364	130	1361	130	8	1330	133	<b>1329</b>	<b>133</b>	1328	133
471.omnetpp	8	1440	34.7	<b>1443</b>	<b>34.7</b>	1443	34.6	8	1399	35.7	<b>1400</b>	<b>35.7</b>	1400	35.7
473.astar	8	1292	43.5	1298	43.3	<b>1294</b>	<b>43.4</b>	8	1228	45.7	<b>1227</b>	<b>45.8</b>	1225	45.9
483.xalancbmk	8	811	68.1	<b>810</b>	<b>68.1</b>	810	68.2	8	<b>801</b>	<b>68.9</b>	802	68.9	800	69.0

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-833S-R760 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/Xeon1333/5000X/X7DA8+.cfm>  
The system bus runs at 1066 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 -Qsfa16 -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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