



# SPEC<sup>®</sup> CINT2006 Result

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## Supermicro Motherborad X7DB3

**SPECint<sup>®</sup>\_rate2006 = 101**  
**SPECint\_rate\_base2006 = 85.1**

CPU2006 license: 001176

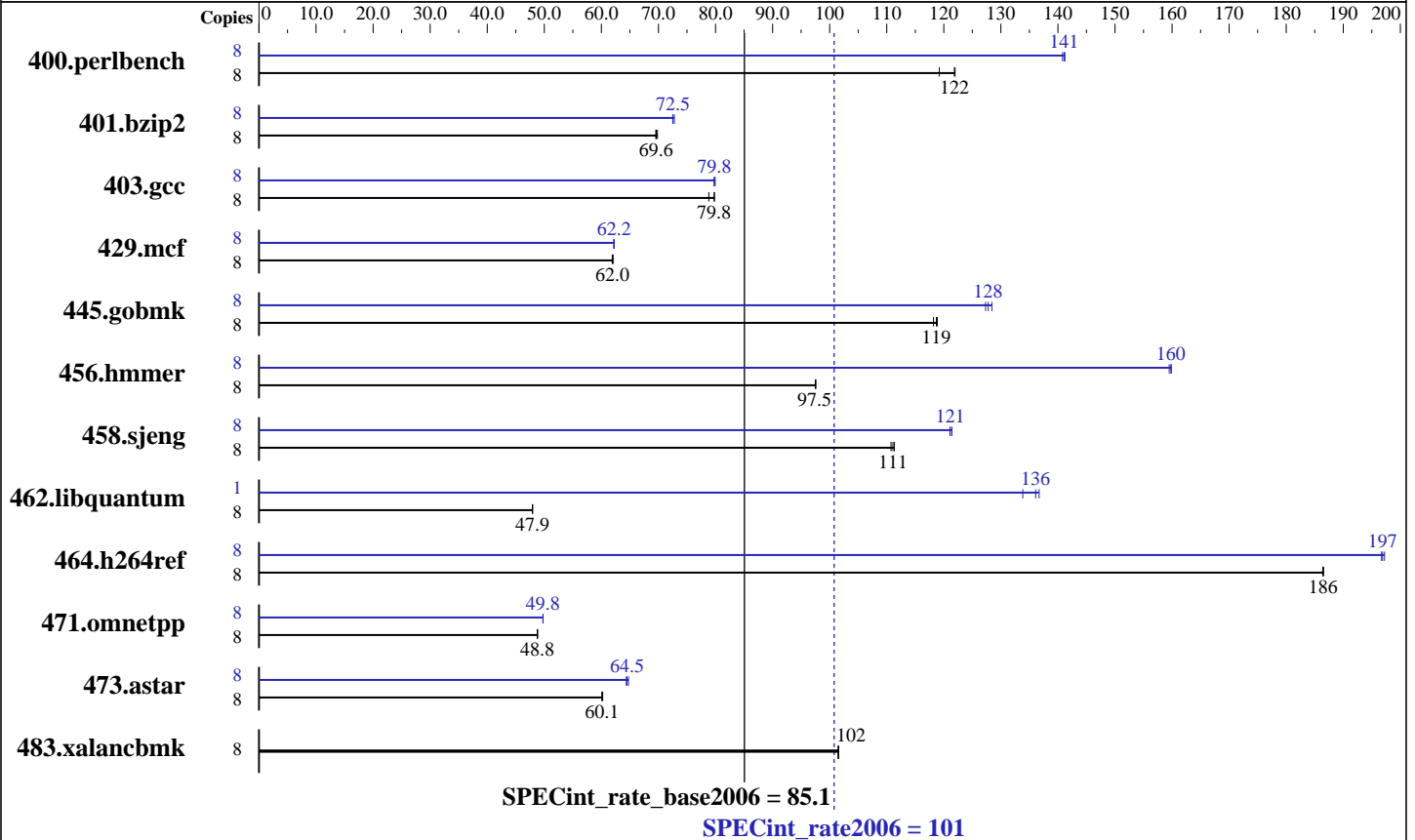
Test sponsor: Supermicro

Tested by: Supermicro

Test date: Oct-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Xeon E5345  
 CPU Characteristics: Quad Core, 2.33GHz  
 CPU MHz: 2333  
 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 \* 2 GB PC2-5300 FBDIMM, CL-5-5-5, ECC)  
 Disk Subsystem: 500 GB SATA, 7200RPM  
 Other Hardware: None

### Software

Operating System: 64-Bit Suse Linux Enterprise Server 10 w/ SP1  
 Compiler: Intel C++ Compiler for Linux32 and Linux64 version 10.1  
 Build 20070725  
 Auto Parallel: Yes  
 File System: ReiserFS  
 System State: Multi-user, run level 3  
 Base Pointers: 32-bit  
 Peak Pointers: 32/64-bit  
 Other Software: SmartHeap library V8.1  
 Binutils 2.17.50.0.15



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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	656	119	<b>641</b>	<b>122</b>	641	122	8	<b>554</b>	<b>141</b>	555	141	553	141
401.bzip2	8	1106	69.8	<b>1109</b>	<b>69.6</b>	1110	69.5	8	1061	72.8	1065	72.5	<b>1064</b>	<b>72.5</b>
403.gcc	8	817	78.8	807	79.8	<b>807</b>	<b>79.8</b>	8	808	79.7	<b>807</b>	<b>79.8</b>	806	79.9
429.mcf	8	<b>1178</b>	<b>62.0</b>	1179	61.9	1176	62.0	8	1173	62.2	<b>1173</b>	<b>62.2</b>	1173	62.2
445.gobmk	8	706	119	<b>707</b>	<b>119</b>	710	118	8	<b>657</b>	<b>128</b>	653	128	659	127
456.hmmmer	8	765	97.6	<b>765</b>	<b>97.5</b>	766	97.5	8	467	160	<b>467</b>	<b>160</b>	468	159
458.sjeng	8	<b>871</b>	<b>111</b>	869	111	874	111	8	797	121	800	121	<b>799</b>	<b>121</b>
462.libquantum	8	3456	48.0	<b>3460</b>	<b>47.9</b>	3460	47.9	1	<b>152</b>	<b>136</b>	152	137	155	134
464.h264ref	8	<b>950</b>	<b>186</b>	950	186	949	187	8	898	197	900	197	<b>899</b>	<b>197</b>
471.omnetpp	8	1024	48.8	<b>1025</b>	<b>48.8</b>	1026	48.8	8	1004	49.8	1005	49.8	<b>1005</b>	<b>49.8</b>
473.astar	8	932	60.2	<b>934</b>	<b>60.1</b>	935	60.1	8	873	64.4	867	64.8	<b>871</b>	<b>64.5</b>
483.xalancbmk	8	544	101	543	102	<b>544</b>	<b>102</b>	8	544	101	543	102	<b>544</b>	<b>102</b>

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  
 Bios settings:  
 Hardware Prefetcher: Enabled  
 Adjacent Sector Prefetch: Disabled  
 All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmmer,  
 for peak, are compiled in 64-bit mode

## Base Compiler Invocation

C benchmarks:  
 icc  
 C++ benchmarks:  
 icpc

## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
 462.libquantum: -DSPEC\_CPU\_LINUX  
 483.xalancbmk: -DSPEC\_CPU\_LINUX



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## Base Optimization Flags

C benchmarks:  
-fast -inline-calloc -opt-malloc-options=3  
C++ benchmarks:  
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs  
-L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap

## Base Other Flags

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

## Peak Compiler Invocation

C benchmarks (except as noted below):  
icc  
401.bzip2: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc  
-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib  
-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include  
456.hmmer: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc  
-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib  
-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include  
C++ benchmarks:  
icpc

## Peak Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
401.bzip2: -DSPEC\_CPU\_LP64  
456.hmmer: -DSPEC\_CPU\_LP64  
462.libquantum: -DSPEC\_CPU\_LINUX  
483.xalancbmk: -DSPEC\_CPU\_LINUX

## Peak Optimization Flags

C benchmarks:

Continued on next page



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## Peak Optimization Flags (Continued)

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias  
-prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch

403.gcc: -fast -inline-calloc -opt-malloc-options=3

429.mcf: -fast -prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo  
-no-prec-div -ansi-alias

456.hmmer: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -fast -unroll4 -Ob0 -prefetch  
-opt-streaming-stores always -vec-guard-write  
-opt-malloc-options=3 -parallel -par-runtime-control

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2  
-ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo  
-no-prec-div -ansi-alias -opt-ra-region-strategy=block  
-Wl,-z,muldefs  
-L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo  
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine  
-Wl,-z,muldefs  
-L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap

483.xalancbmk: basepeak = yes

## 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-ic10-ia32-intel64-linux-flags.20090714.17.html>



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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.17.xml>

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