



# SPEC® CINT2006 Result

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## Intel Corporation

Supermicro X7DB+ (Intel Xeon processor 5110, 1.60 GHz)

SPECint®\_rate2006 = 41.0

SPECint\_rate\_base2006 = 37.8

CPU2006 license: 13

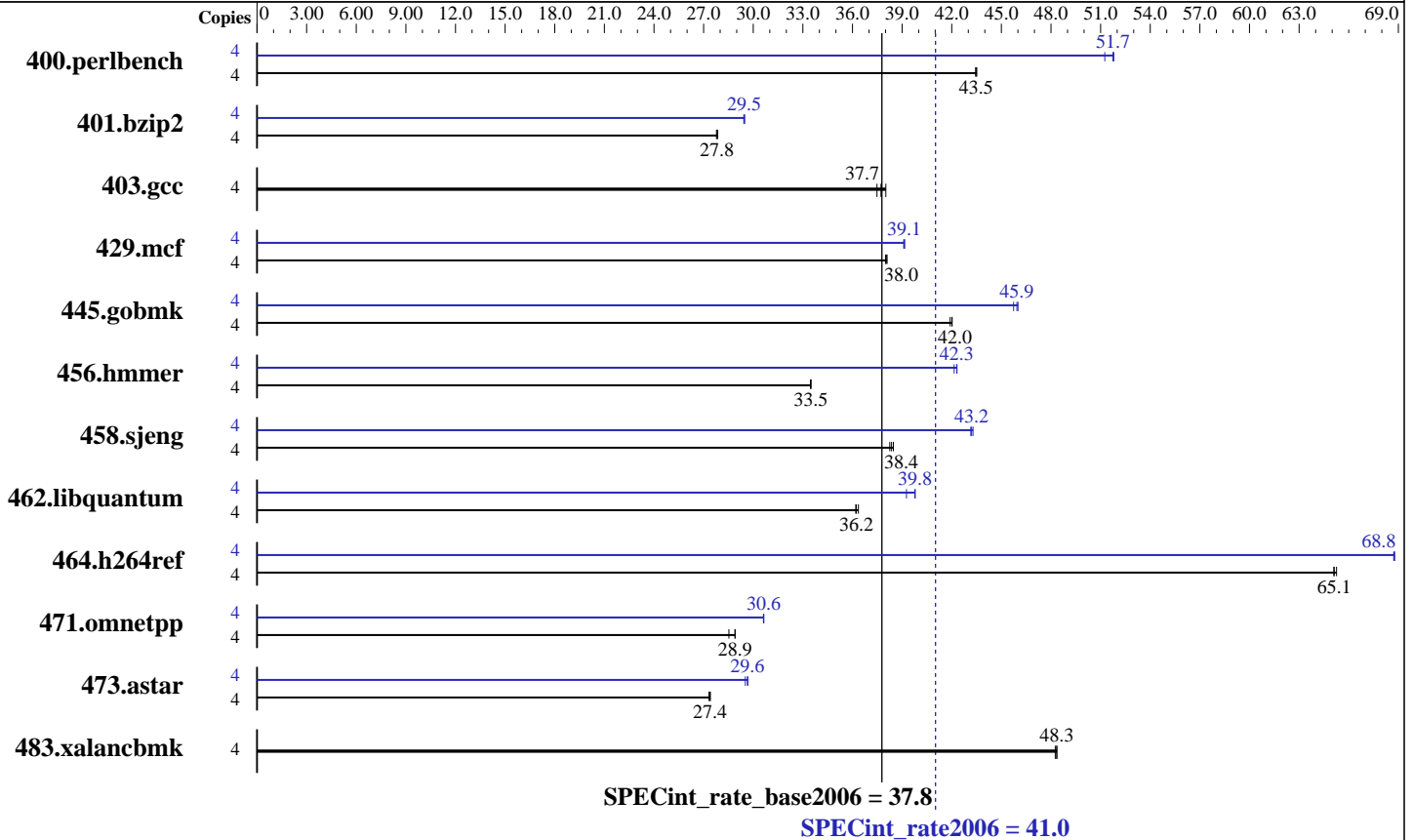
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jun-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



### Hardware

CPU Name: Intel Xeon 5110  
 CPU Characteristics: Dual Core, 1.60 GHz  
 CPU MHz: 1600  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1,2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 4 MB I+D on chip per chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8 GB (8 \* 1GB Samsung DDR2 5300F, 2 rank, CL5-5-5, ECC)  
 Disk Subsystem: Seagate, SCSI, 73GB, 10Krpm, 1 disk only  
 Other Hardware: None

### Software

Operating System: 64-Bit SUSE LINUX Enterprise Server 10, Kernel 2.6.16.21-0.8-smp for x86\_64  
 Compiler: Intel C++ Compiler for Linux32 version 10.0 Build 20070426 Package ID: l\_cc\_p\_10.0.023  
 Auto Parallel: No  
 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	4	900	43.4	898	43.5	<b>899</b>	<b>43.5</b>	4	754	51.8	<b>755</b>	<b>51.7</b>	763	51.2
401.bzip2	4	<b>1388</b>	<b>27.8</b>	1390	27.8	1386	27.9	4	1309	29.5	1312	29.4	<b>1310</b>	<b>29.5</b>
403.gcc	4	<b>854</b>	<b>37.7</b>	859	37.5	847	38.0	4	<b>854</b>	<b>37.7</b>	859	37.5	847	38.0
429.mcf	4	<b>959</b>	<b>38.0</b>	958	38.1	960	38.0	4	<b>932</b>	<b>39.1</b>	932	39.1	933	39.1
445.gobmk	4	1001	41.9	<b>999</b>	<b>42.0</b>	998	42.0	4	<b>913</b>	<b>45.9</b>	917	45.7	912	46.0
456.hmmer	4	<b>1115</b>	<b>33.5</b>	1114	33.5	1115	33.5	4	<b>882</b>	<b>42.3</b>	882	42.3	885	42.1
458.sjeng	4	1258	38.5	<b>1262</b>	<b>38.4</b>	1265	38.3	4	1122	43.2	1118	43.3	<b>1120</b>	<b>43.2</b>
462.libquantum	4	<b>2288</b>	<b>36.2</b>	2280	36.4	2290	36.2	4	2083	39.8	2111	39.3	<b>2084</b>	<b>39.8</b>
464.h264ref	4	<b>1359</b>	<b>65.1</b>	1356	65.3	1360	65.1	4	1287	68.8	<b>1287</b>	<b>68.8</b>	1288	68.7
471.omnetpp	4	865	28.9	<b>865</b>	<b>28.9</b>	876	28.5	4	816	30.6	<b>816</b>	<b>30.6</b>	817	30.6
473.astar	4	<b>1025</b>	<b>27.4</b>	1028	27.3	1025	27.4	4	<b>947</b>	<b>29.6</b>	951	29.5	946	29.7
483.xalancbmk	4	<b>571</b>	<b>48.3</b>	571	48.4	572	48.3	4	<b>571</b>	<b>48.3</b>	571	48.4	572	48.3

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

## General Notes

Bios settings:

Hardware Prefetcher: Enabled

Adjacent Sector Prefetch: Disabled

All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmer, for peak, are compiled in 64-bit mode

taskset was used to bind processes to cores

## 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

C++ benchmarks:

-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs  
-L/spec/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: /opt/intel/cce/10.0.023/bin/icc  
-L/opt/intel/cce/10.0.023/lib  
-I/opt/intel/cce/10.0.023/include

456.hmmer: /opt/intel/cce/10.0.023/bin/icc  
-L/opt/intel/cce/10.0.023/lib  
-I/opt/intel/cce/10.0.023/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

403.gcc: basepeak = yes

429.mcf: -fast -prefetch

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

456.hmmer: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2  
-ansi-alias

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

462.libquantum: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -Ob0  
-prefetch -opt-streaming-stores always

464.h264ref: Same as 456.hmmer

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo  
-no-prec\_div -ansi-alias -Wl,-z,muldefs  
-L/spec/cpu2006.1.0/lib -lsmartheap

473.astar: Same as 471.omnetpp

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.20090714.35.html>

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.20090714.35.xml>



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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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