



SPEC® CINT2006 Result

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Supermicro

Motherboard X8SIU-F (Intel Pentium G6950, 2.80 GHz)

SPECint®_rate2006 = 43.0

SPECint_rate_base2006 = 39.1

CPU2006 license: 001176

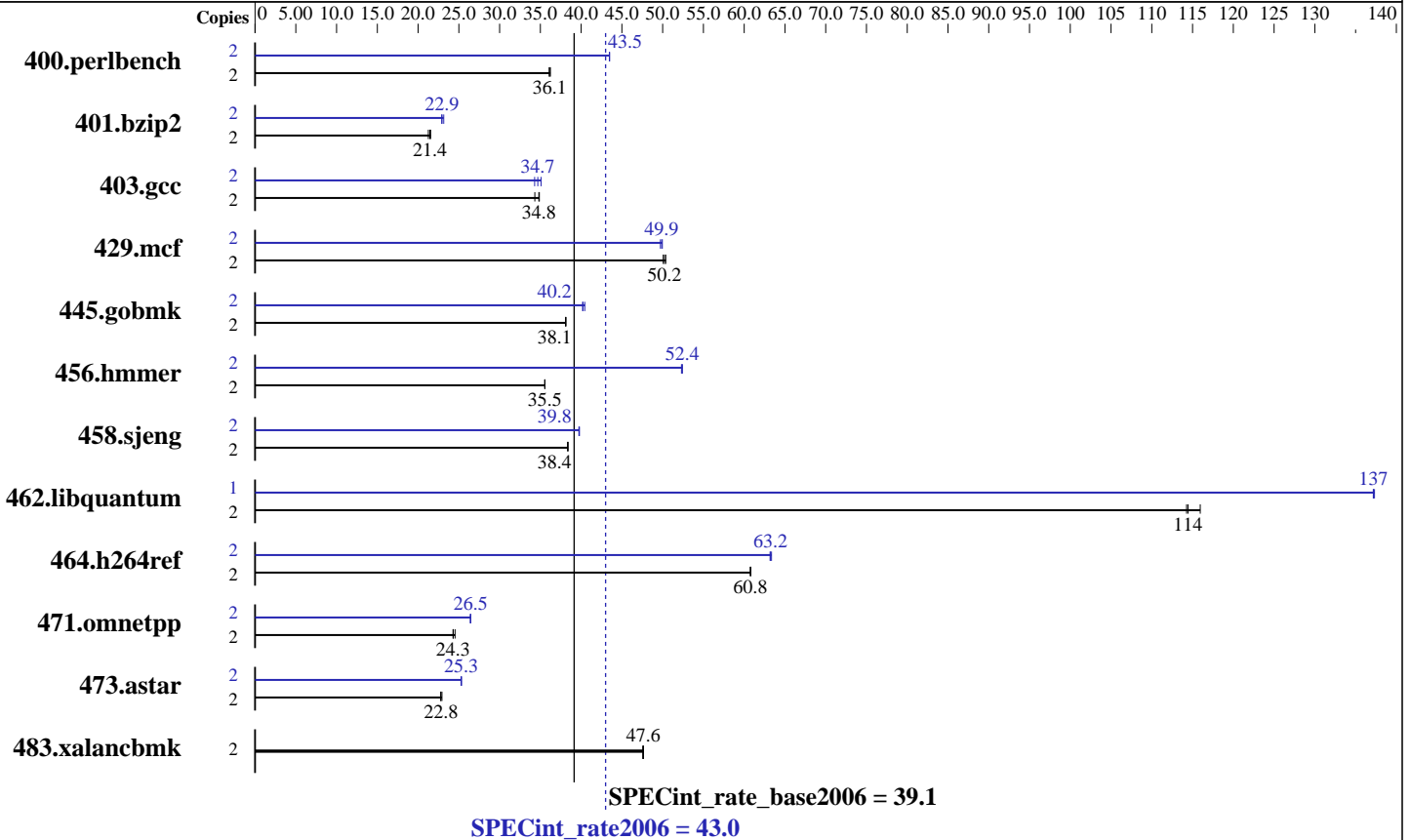
Test sponsor: Supermicro

Tested by: Supermicro

Test date: Jun-2010

Hardware Availability: Apr-2010

Software Availability: Jan-2010



Hardware

CPU Name: Intel Pentium G6950
 CPU Characteristics:
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 256 KB I+D on chip per core
 L3 Cache: 3 MB I+D on chip per chip
 Other Cache: None
 Memory: 16 GB (4 x 4 GB 2Rx8 DDR3-1333 UDIMM, ECC, CL9)
 Disk Subsystem: 1 x 160 GB SATA II, 7200 RPM
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64)
 Kernel 2.6.27.19-5-default
 Compiler: Intel C++ Professional Compiler for IA32 and Intel 64, Version 11.1
 Build 20091130 Package ID: l_cproc_p_11.1.064
 Auto Parallel: Yes
 File System: ext3
 System State: Run level 3 (multi-user)
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Microquill SmartHeap V8.1



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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 | 2 | 539 | 36.2 | 542 | 36.1 | <u>541</u> | <u>36.1</u> | 2 | 450 | 43.5 | <u>449</u> | <u>43.5</u> | 449 | 43.5 |
| 401.bzip2 | 2 | 908 | 21.3 | <u>900</u> | <u>21.4</u> | 896 | 21.5 | 2 | 843 | 22.9 | <u>842</u> | <u>22.9</u> | 834 | 23.1 |
| 403.gcc | 2 | 462 | 34.9 | <u>462</u> | <u>34.8</u> | 469 | 34.3 | 2 | <u>464</u> | <u>34.7</u> | 469 | 34.3 | 459 | 35.1 |
| 429.mcf | 2 | 362 | 50.4 | 364 | 50.1 | <u>363</u> | <u>50.2</u> | 2 | <u>366</u> | <u>49.9</u> | 367 | 49.7 | 365 | 50.0 |
| 445.gobmk | 2 | 550 | 38.1 | <u>551</u> | <u>38.1</u> | 551 | 38.1 | 2 | 522 | 40.2 | 519 | 40.4 | <u>521</u> | <u>40.2</u> |
| 456.hammer | 2 | 525 | 35.5 | 525 | 35.6 | <u>525</u> | <u>35.5</u> | 2 | 356 | 52.4 | <u>356</u> | <u>52.4</u> | 357 | 52.3 |
| 458.sjeng | 2 | 630 | 38.4 | <u>631</u> | <u>38.4</u> | 631 | 38.3 | 2 | 609 | 39.7 | 608 | 39.8 | <u>609</u> | <u>39.8</u> |
| 462.libquantum | 2 | 363 | 114 | 357 | 116 | <u>362</u> | <u>114</u> | 1 | 151 | 137 | <u>151</u> | <u>137</u> | 151 | 137 |
| 464.h264ref | 2 | 728 | 60.8 | 728 | 60.8 | <u>728</u> | <u>60.8</u> | 2 | 699 | 63.4 | <u>700</u> | <u>63.2</u> | 701 | 63.2 |
| 471.omnetpp | 2 | 510 | 24.5 | 515 | 24.3 | <u>514</u> | <u>24.3</u> | 2 | 472 | 26.5 | <u>473</u> | <u>26.5</u> | 474 | 26.4 |
| 473.astar | 2 | 612 | 22.9 | 617 | 22.8 | <u>616</u> | <u>22.8</u> | 2 | 554 | 25.3 | <u>555</u> | <u>25.3</u> | 556 | 25.3 |
| 483.xalancbmk | 2 | <u>290</u> | <u>47.6</u> | 290 | 47.6 | 290 | 47.6 | 2 | <u>290</u> | <u>47.6</u> | 290 | 47.6 | 290 | 47.6 |

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

Submit Notes

The config file option 'submit' was used.

Operating System Notes

'ulimit -s unlimited' was used to set the stack size to unlimited prior to run
OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to granularity=fine,scatter

Platform Notes

Fan speed set to Full Speed in BIOS Setup.
As tested, the system used a Supermicro CSE-815TQ-330UB chassis.
The chassis is bundled with a PWS-333-1H20 power supply, a SNK-P0046P heatsink, and 4 FAN-0086L4 cooling fans.

General Notes

Binaries were compiled on SLES 10 with Binutils 2.18.50.0.7.20080502

Base Compiler Invocation

C benchmarks:
icc -m32

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Base Compiler Invocation (Continued)

C++ benchmarks:
icpc -m32

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-xSSSE3 -ipo -O3 -no-prec-div -static -inline-calloc
-opt-malloc-options=3 -opt-prefetch

C++ benchmarks:
-xSSSE3 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-32bit -lsmartheap

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
icc -m32

401.bzip2: icc -m64

456.hmmer: icc -m64

462.libquantum: icc -m64

C++ benchmarks (except as noted below):
icpc -m32

473.astar: icpc -m64



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Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -ansi-alias -opt-prefetch
401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -opt-prefetch -ansi-alias
403.gcc: -xSSSE3 -ipo -O3 -no-prec-div -static -inline-alloc
-opt-malloc-options=3
429.mcf: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -opt-prefetch
445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -O2 -ipo
-no-prec-div -ansi-alias
456.hmmer: -xSSSE3 -ipo -O3 -no-prec-div -static -unroll2
-ansi-alias
458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -unroll4
462.libquantum: -xSSSE3 -ipo -O3 -no-prec-div -static
-opt-malloc-options=3 -parallel -auto-ilp32 -opt-prefetch
464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -unroll2 -ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -ansi-alias -opt-ra-region-strategy=block
-Wl,-z,muldefs
-L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-32bit -lsmartheap
473.astar: -prof-gen(pass 1) -prof-use(pass 2) -ansi-alias
-opt-ra-region-strategy=routine -Wl,-z,muldefs
-L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-64bit -lsmartheap64

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Peak Optimization Flags (Continued)

483.xalanbmk: 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-ic11.1-linux64-revE.20100915.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100915.xml>

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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