



SPEC® CINT2006 Result

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Supermicro Motherboard H8DMR-82

SPECint®_rate2006 = 56.8

SPECint_rate_base2006 = 50.9

CPU2006 license: 001176

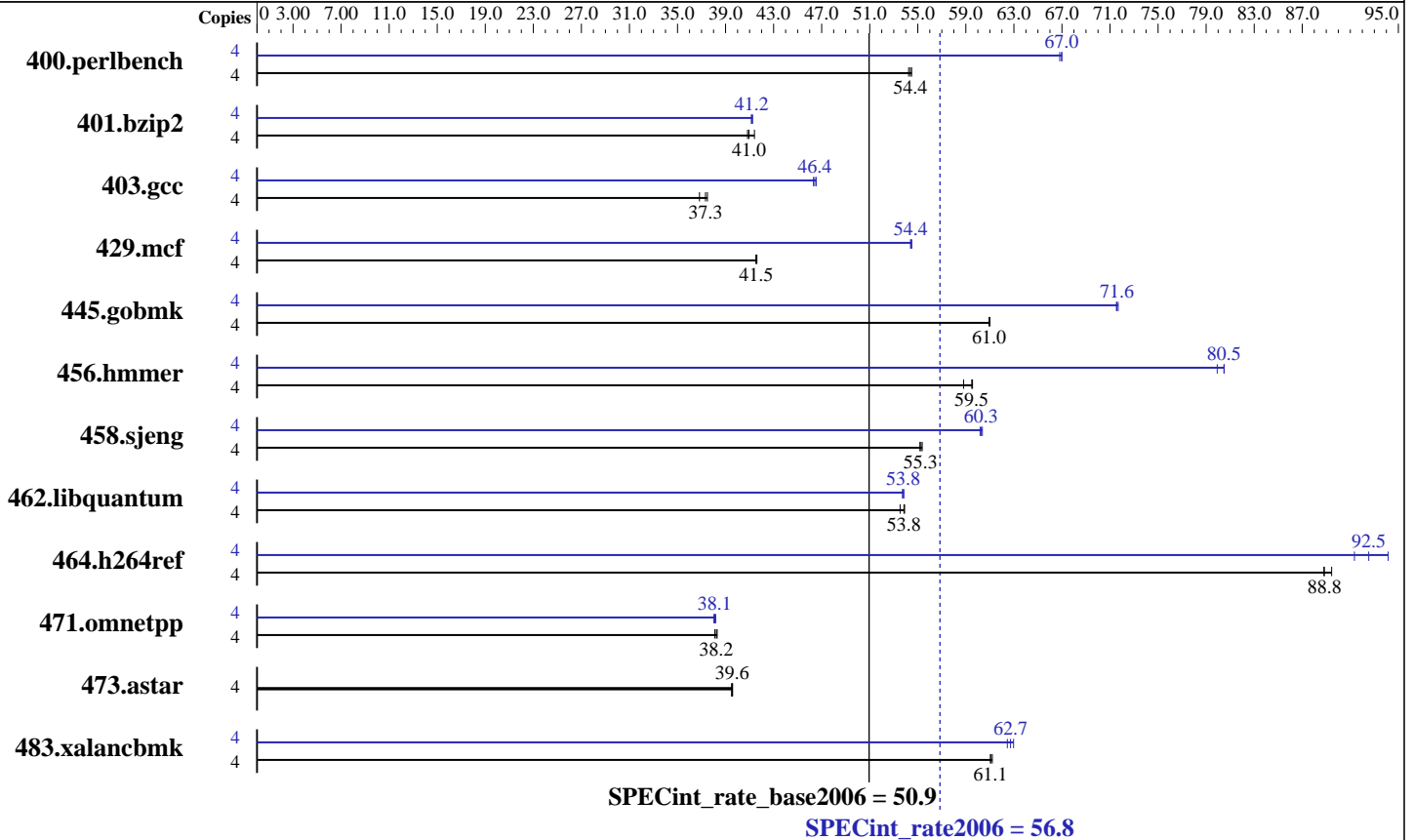
Test sponsor: Supermicro

Tested by: Supermicro

Test date: Jun-2007

Hardware Availability: May-2007

Software Availability: Feb-2007



Hardware

CPU Name: AMD Opteron 2222 SE
 CPU Characteristics:
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8x2GB, DDR2-667 CL5 ECC Reg Single Rank)
 Disk Subsystem: 120GB SATA, 7200RPM
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 10 64-bit kernel
 Compiler: QLogic PathScale Compiler Suite, Release 3.0
 Auto Parallel: No
 File System: ext2
 System State: Multi-user, run level 2
 Base Pointers: 32/64-bit
 Peak Pointers: 32/64-bit
 Other Software: SmartHeap 8.0 32 bit Library for Linux



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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	<u>719</u>	<u>54.4</u>	717	54.5	720	54.2	4	585	66.8	583	67.0	<u>584</u>	<u>67.0</u>
401.bzip2	4	932	41.4	<u>943</u>	<u>41.0</u>	945	40.8	4	936	41.3	<u>937</u>	<u>41.2</u>	938	41.1
403.gcc	4	859	37.5	<u>863</u>	<u>37.3</u>	874	36.8	4	695	46.3	<u>694</u>	<u>46.4</u>	692	46.5
429.mcf	4	877	41.6	878	41.5	<u>878</u>	<u>41.5</u>	4	669	54.5	671	54.4	<u>670</u>	<u>54.4</u>
445.gobmk	4	688	61.0	<u>688</u>	<u>61.0</u>	689	60.9	4	<u>586</u>	<u>71.6</u>	587	71.5	585	71.7
456.hmmer	4	<u>627</u>	<u>59.5</u>	627	59.6	635	58.8	4	464	80.5	<u>464</u>	<u>80.5</u>	467	79.9
458.sjeng	4	<u>876</u>	<u>55.3</u>	877	55.2	874	55.4	4	804	60.2	802	60.4	<u>803</u>	<u>60.3</u>
462.libquantum	4	<u>1539</u>	<u>53.8</u>	1538	53.9	1548	53.5	4	<u>1541</u>	<u>53.8</u>	1539	53.8	1543	53.7
464.h264ref	4	990	89.4	<u>996</u>	<u>88.8</u>	997	88.8	4	<u>957</u>	<u>92.5</u>	969	91.3	940	94.2
471.omnetpp	4	<u>654</u>	<u>38.2</u>	653	38.3	656	38.1	4	655	38.2	<u>656</u>	<u>38.1</u>	657	38.0
473.astar	4	709	39.6	<u>710</u>	<u>39.6</u>	711	39.5	4	709	39.6	<u>710</u>	<u>39.6</u>	711	39.5
483.xalancbmk	4	451	61.2	<u>452</u>	<u>61.1</u>	452	61.1	4	<u>440</u>	<u>62.7</u>	438	63.0	442	62.5

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

General Notes

taskset utility used to bind cores to processes
Tested systems can be used with CSE-815S+-560 case,
To ensure system stability, a 560W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]
Product description located as of <http://www.supermicro.com/Aplus/motherboard/Opteron2000/MCP55/H8DMR-82.cfm>

Base Compiler Invocation

C benchmarks:
pathcc

C++ benchmarks:
pathCC

Base Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX

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Base Portability Flags (Continued)

464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-Ofast -OPT:malloc_alg=1
C++ benchmarks:
-Ofast -m32 -L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

Peak Compiler Invocation

C benchmarks:
pathcc
C++ benchmarks:
pathCC

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:
400.perlbench: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast
-LNO:opt=0
401.bzip2: -O3 -LNO:ou_prod_max=10 -OPT:Ofast -OPT:alias=disjoint
403.gcc: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -O3
-OPT:Ofast

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Peak Optimization Flags (Continued)

429.mcf: -m32 -O3 -ipa
-L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

445.gobmk: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-OPT:alias=disjoint -LNO:simd=0 -LNO:minvariant=off
-WOPT:retype_expr=on

456.hmmer: -O2 -OPT:alias=disjoint -OPT:malloc_alg=1 -CG:cflow=0

458.sjeng: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-IPA:plimit=50000 -IPA:pu_reorder=2

462.libquantum: -O3 -ipa -CG:local_fwd_sched=on -IPA:space=1000

464.h264ref: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-IPA:plimit=20000 -OPT:alias=disjoint -LNO:prefetch=0

C++ benchmarks:

471.omnetpp: -Ofast -CG:gcm=off -m32
-L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

473.astar: basepeak = yes

483.xalancbmk: -Ofast -m32 -OPT:unroll_times_max=8
-L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.06.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.06.xml

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For other inquiries, please contact webmaster@spec.org.

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