



SPEC® CINT2006 Result

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**Supermicro
Motherboard H8DMU+**

**SPECint_rate2006 = 50.9
SPECint_rate_base2006 = 45.6**

CPU2006 license: 001176

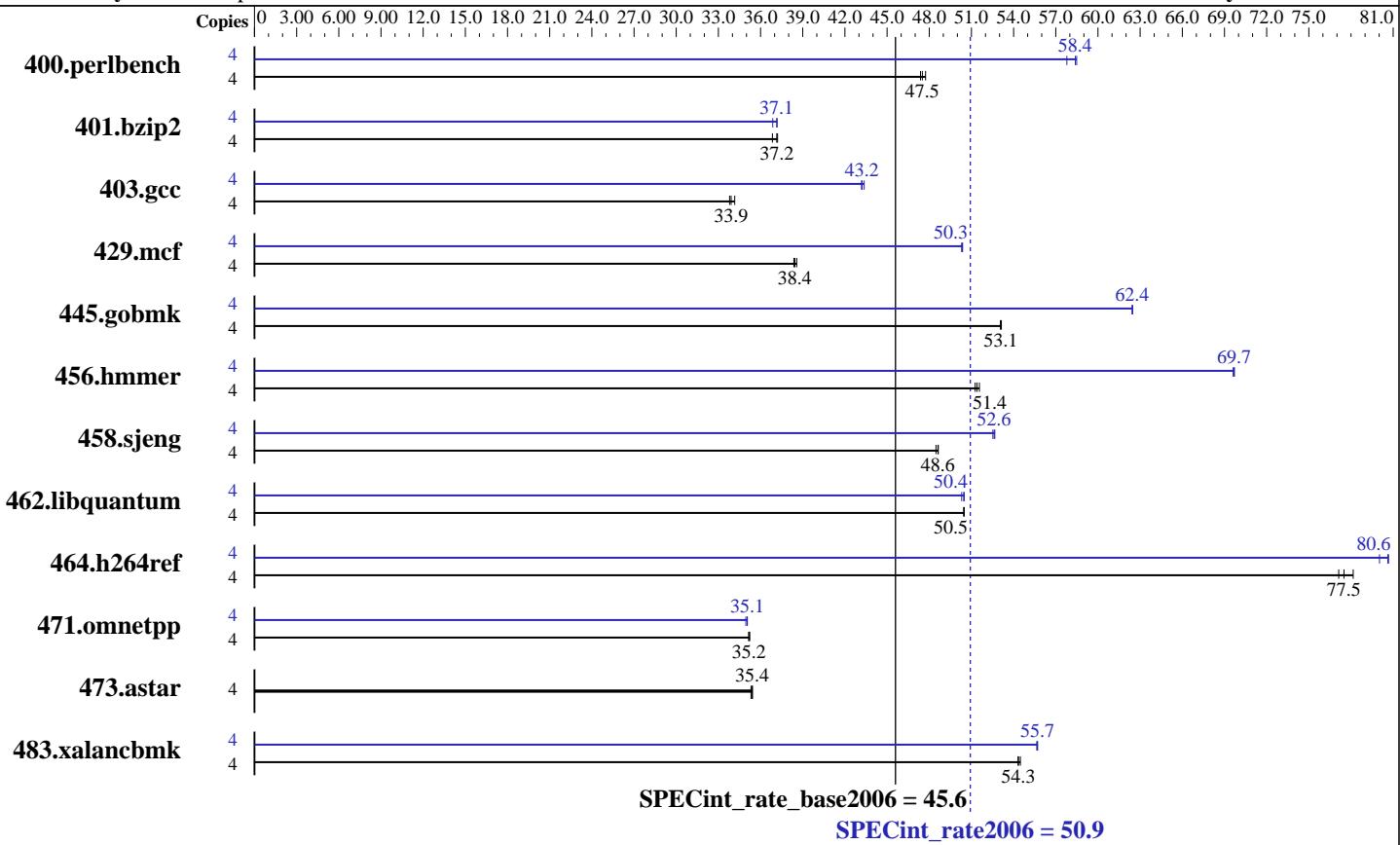
Test sponsor: Supermicro

Tested by: Supermicro

Test date: Oct-2007

Hardware Availability: Jul-2007

Software Availability: Feb-2007



Hardware		Software	
CPU Name:	AMD Opteron 2218	Operating System:	SuSE Linux Enterprise Server 10 (x86_64) SP1, kernel 2.6.16.46-0.12-default
CPU Characteristics:	2600	Compiler:	QLogic PathScale
CPU MHz:	Integrated	Auto Parallel:	Compiler Suite, Release 3.0
FPU:	4 cores, 2 chips, 2 cores/chip	File System:	No
CPU(s) enabled:	1,2 chips	System State:	ReiserFS
CPU(s) orderable:	64 KB I + 64 KB D on chip per core	Base Pointers:	Multi-user, run level 3
Primary Cache:	1 MB I+D on chip per core	Peak Pointers:	32/64-bit
Secondary Cache:	None	Other Software:	SmartHeap 8.0 32 bit Library for Linux
L3 Cache:	None		
Other Cache:	None		
Memory:	16 GB (8x2GB, DDR2-667 CL5 ECC Reg Dual Rank)		
Disk Subsystem:	SATA, 250 GB		
Other Hardware:	None		



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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	825	47.4	819	47.7	823	47.5	4	668	58.5	676	57.8	669	58.4
401.bzip2	4	1039	37.2	1048	36.8	1037	37.2	4	1047	36.9	1038	37.2	1039	37.1
403.gcc	4	943	34.2	953	33.8	950	33.9	4	745	43.2	742	43.4	746	43.2
429.mcf	4	946	38.6	951	38.4	949	38.4	4	725	50.3	725	50.3	724	50.4
445.gobmk	4	790	53.1	791	53.1	791	53.1	4	672	62.4	672	62.5	672	62.4
456.hammer	4	728	51.3	724	51.6	726	51.4	4	536	69.6	536	69.7	535	69.7
458.sjeng	4	996	48.6	998	48.5	995	48.6	4	920	52.6	919	52.7	921	52.5
462.libquantum	4	1642	50.5	1642	50.5	1642	50.5	4	1647	50.3	1642	50.5	1643	50.4
464.h264ref	4	1142	77.5	1133	78.2	1148	77.1	4	1098	80.6	1106	80.0	1097	80.7
471.omnetpp	4	710	35.2	711	35.2	711	35.2	4	713	35.1	713	35.1	715	35.0
473.astar	4	795	35.3	793	35.4	793	35.4	4	795	35.3	793	35.4	793	35.4
483.xalancbmk	4	508	54.3	508	54.3	507	54.5	4	496	55.6	496	55.7	495	55.7

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

General Notes

taskset utility used to bind CPU(s) to processes

All memory slots filled on all chips

Tested systems can be used with CSE-825TQ-R700LPV case,

To ensure system stability, a 550W (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/H8DMU+.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

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Base Portability Flags (Continued)

456.hmmr: -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

Base Optimization Flags

C benchmarks:

-Ofast -OPT:malloc_alg=1

C++ benchmarks:

-Ofast -m32 -L/cpu2006/mpatton/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.hmmr: -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

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Peak Optimization Flags (Continued)

403.gcc: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -O3
-OPT:Ofast

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.hmmr: -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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