



SPEC® CINT2006 Result

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Supermicro Motherboard H8DM8-2

SPECint®_rate2006 = 45.4

SPECint_rate_base2006 = 43.9

CPU2006 license: 001176

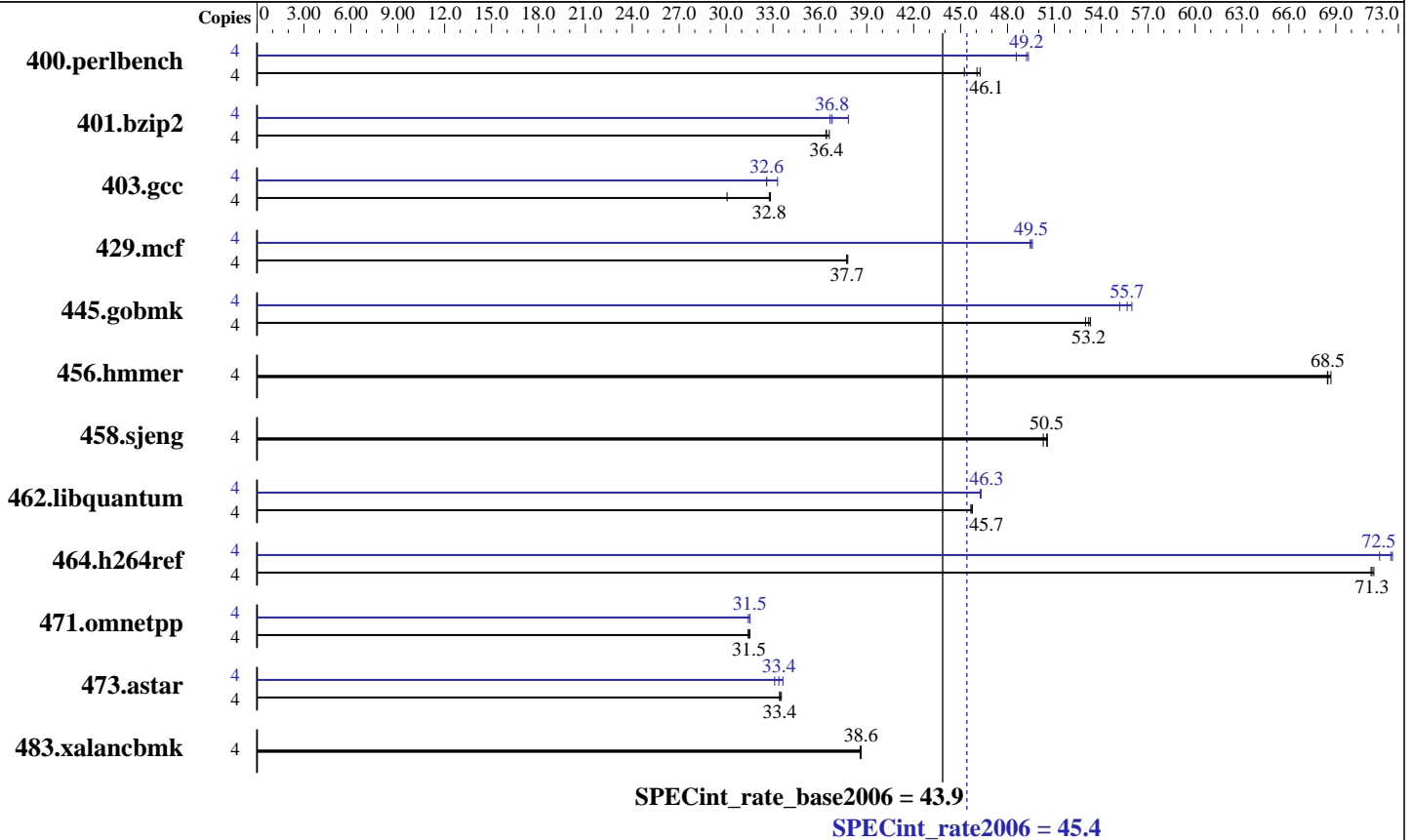
Test sponsor: Supermicro

Tested by: Supermicro

Test date: Mar-2007

Hardware Availability: Jan-2007

Software Availability: Sep-2006



Hardware

CPU Name: AMD Opteron 2220 SE
 CPU Characteristics: 2.8GHz
 CPU MHz: 2800
 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: 64 GB (16x4GB, ECC REG PC25300 CLS)
 Disk Subsystem: 250GB IDE, 7200RPM
 Other Hardware: None

Software

Operating System: SuSE 10.0 (Kernel 2.6.16.21-0.8-smp x86_64)
 Compiler: The Portland Group (PGI)
 PGI pgcc 6.2-4 C Compiler
 PGI pgCC 6.2-4 C++ Compiler

Auto Parallel: No
 File System: ext3
 System State: Multi-user
 Base Pointers: 32/64-bit
 Peak Pointers: 32/64-bit
 Other Software: 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	864	45.2	849	46.1	845	46.2	4	805	48.6	792	49.3	794	49.2
401.bzip2	4	1061	36.4	1055	36.6	1060	36.4	4	1053	36.7	1049	36.8	1021	37.8
403.gcc	4	983	32.8	1071	30.1	981	32.8	4	988	32.6	967	33.3	988	32.6
429.mcf	4	965	37.8	967	37.7	967	37.7	4	738	49.5	736	49.6	737	49.5
445.gobmk	4	789	53.2	787	53.3	792	53.0	4	750	56.0	754	55.7	761	55.2
456.hmmer	4	543	68.7	545	68.5	545	68.5	4	543	68.7	545	68.5	545	68.5
458.sjeng	4	962	50.3	958	50.5	957	50.5	4	962	50.3	958	50.5	957	50.5
462.libquantum	4	1813	45.7	1811	45.8	1815	45.7	4	1790	46.3	1791	46.3	1791	46.3
464.h264ref	4	1239	71.4	1242	71.3	1241	71.3	4	1233	71.8	1219	72.6	1221	72.5
471.omnetpp	4	796	31.4	793	31.5	794	31.5	4	796	31.4	793	31.5	793	31.5
473.astar	4	840	33.4	837	33.5	840	33.4	4	835	33.6	848	33.1	841	33.4
483.xalancbmk	4	714	38.6	715	38.6	715	38.6	4	714	38.6	715	38.6	715	38.6

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

General Notes

Environment stack size set to 'unlimited'
Tested systems can be used with CSE-825S2-560LPV 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/H8DM8-2.cfm>

Base Compiler Invocation

C benchmarks:
/opt/pgi/624/linux86-64/6.2/bin/pgcc

C++ benchmarks:
/opt/pgi/624/linux86-64/6.2/bin/pgCC

Base Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64 -DSPEC_CPU_HAVE_BOOL
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:
-fastsse -Mipa=fast -Mipa=inline -Msmartalloc -tp k8-64
C++ benchmarks:
-fastsse -Mipa=fast -Mipa=inline -Msmartalloc -tp k8-32

Base Other Flags

C benchmarks:
-w
C++ benchmarks:
-w

Peak Compiler Invocation

C benchmarks:
/opt/pgi/624/linux86-64/6.2/bin/pgcc
C++ benchmarks:
/opt/pgi/624/linux86-64/6.2/bin/pgCC

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64 -DSPEC_CPU_HAVE_BOOL
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmmer: -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



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Peak Optimization Flags

C benchmarks:

400.perlbench: -Mpfi(pass 1) -Mipa=fast(pass 2) -Mipa=inline(pass 2)
-Mpfo(pass 2) -fastsse -Msmartalloc -Mnounroll -tp k8-64

401.bzip2: -Mpfi(pass 1) -Mipa=fast(pass 2) -Mipa=inline(pass 2)
-Mpfo(pass 2) -fastsse -Msmartalloc -tp k8-64

403.gcc: Same as 401.bzip2

429.mcf: -Mpfi(pass 1) -Mipa=fast(pass 2) -Mipa=inline(pass 2)
-Mpfo(pass 2) -fastsse -tp k8-32

445.gobmk: -Mpfi(pass 1) -Mipa=fast(pass 2) -Mipa=inline(pass 2)
-Mpfo(pass 2) -fastsse -Msmartalloc -Msafeptr -tp k8-64

456.hmmcr: basepeak = yes

458.sjeng: basepeak = yes

462.libquantum: -fastsse -Msafeptr -Mfpelaxed -Msmartalloc
-Mprefetch=distance:8 -Mprefetch=nta -Mipa=fast
-Mipa=inline -Mipa=nolocalarg -tp k8-64

464.h264ref: -Mpfi(pass 1) -Mipa=fast(pass 2) -Mipa=inline(pass 2)
-Mpfo(pass 2) -fastsse -Msmartalloc -Mvect=noaltcode
-tp k8-64

C++ benchmarks:

471.omnetpp: -fastsse -Msmartalloc -Mfpelaxed=rsqrt -Mfpelaxed=sqrt
-Mfpelaxed=div -Mipa=fast -Mipa=inline -tp k8-32

473.astar: -fastsse -Mipa=fast -Mipa=inline -Msmartalloc -tp k8-64

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

-w

C++ benchmarks:

-w



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

http://www.spec.org/cpu2006/flags/pgi62_flags.html

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

http://www.spec.org/cpu2006/flags/pgi62_flags.xml

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

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