



SPEC® CINT2006 Result

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Supermicro

SPECint®_rate2006 = Not Run

A+ Server 2021M-UR+B, AMD Opteron 2356

SPECint_rate_base2006 = 71.5

CPU2006 license: 49

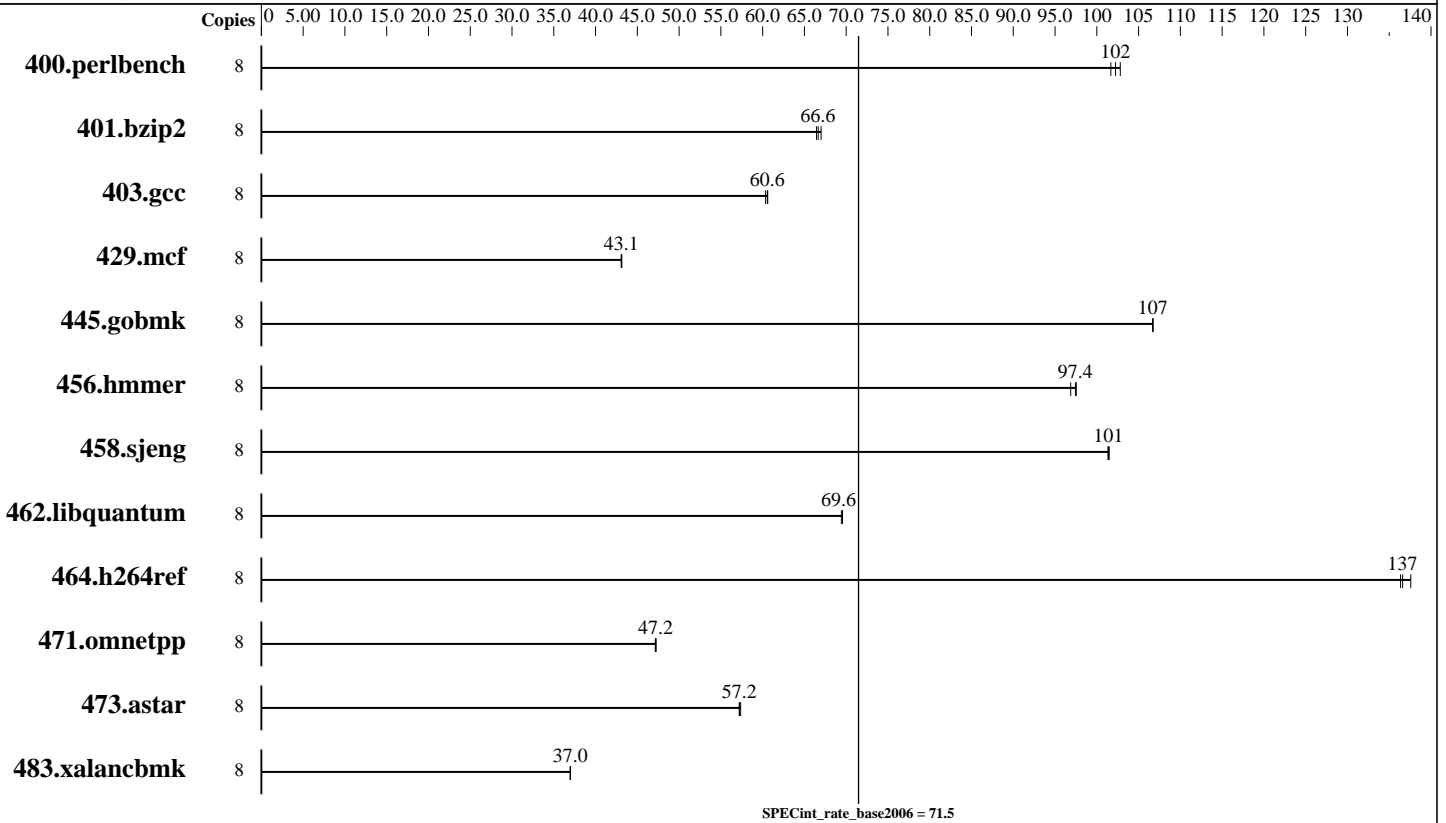
Test sponsor: Advanced Micro Devices

Tested by: Advanced Micro Devices

Test date: Apr-2008

Hardware Availability: Apr-2008

Software Availability: Mar-2008



Hardware

CPU Name: AMD Opteron 2356
 CPU Characteristics:
 CPU MHz: 2300
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 512 KB I+D on chip per core
 L3 Cache: 2 MB I+D on chip per chip
 Other Cache: None
 Memory: 16 GB (8 x 2GB, DDR2-667 CL5 ECC Reg Dual Rank)
 Disk Subsystem: 1 x 120 GB SATA, 7200 RPM
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
 Compiler: gcc, g++ 4.3.0
 Auto Parallel: No
 File System: ext3
 System State: Runlevel 3 (Full multiuser with network)
 Base Pointers: 64-bit
 Peak Pointers: Not Applicable
 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	8	760	103	<u>765</u>	<u>102</u>	769	102							
401.bzip2	8	1152	67.0	1162	66.5	<u>1158</u>	<u>66.6</u>							
403.gcc	8	1067	60.4	1063	60.6	<u>1063</u>	<u>60.6</u>							
429.mcf	8	<u>1693</u>	<u>43.1</u>	1694	43.1	1691	43.1							
445.gobmk	8	786	107	<u>787</u>	<u>107</u>	787	107							
456.hammer	8	<u>766</u>	<u>97.4</u>	765	97.5	770	96.9							
458.sjeng	8	954	101	955	101	<u>955</u>	<u>101</u>							
462.libquantum	8	2383	69.6	<u>2383</u>	<u>69.6</u>	2388	69.4							
464.h264ref	8	<u>1296</u>	<u>137</u>	1298	136	1287	138							
471.omnetpp	8	1060	47.1	<u>1059</u>	<u>47.2</u>	1058	47.2							
473.astar	8	982	57.2	979	57.4	<u>981</u>	<u>57.2</u>							
483.xalancbmk	8	1492	37.0	<u>1492</u>	<u>37.0</u>	1493	37.0							

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

Operating System Notes

'numactl' was used to bind copies to the cores

Base Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

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.hammer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
471.omnetpp: -DSPEC_CPU_LP64
473.astar: -DSPEC_CPU_LP64

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Base Portability Flags (Continued)

483.xalancbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

-O3 -funroll-loops -fno-strict-aliasing

C++ benchmarks:

-O3 -funroll-loops -fno-strict-aliasing

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.04.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.04.xml

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

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