



SPEC® CINT2006 Result

Copyright 2006-2008 Standard Performance Evaluation Corporation

Supermicro

SPECint®_rate2006 = Not Run

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

SPECint_rate_base2006 = 71.5

CPU2006 license: 49

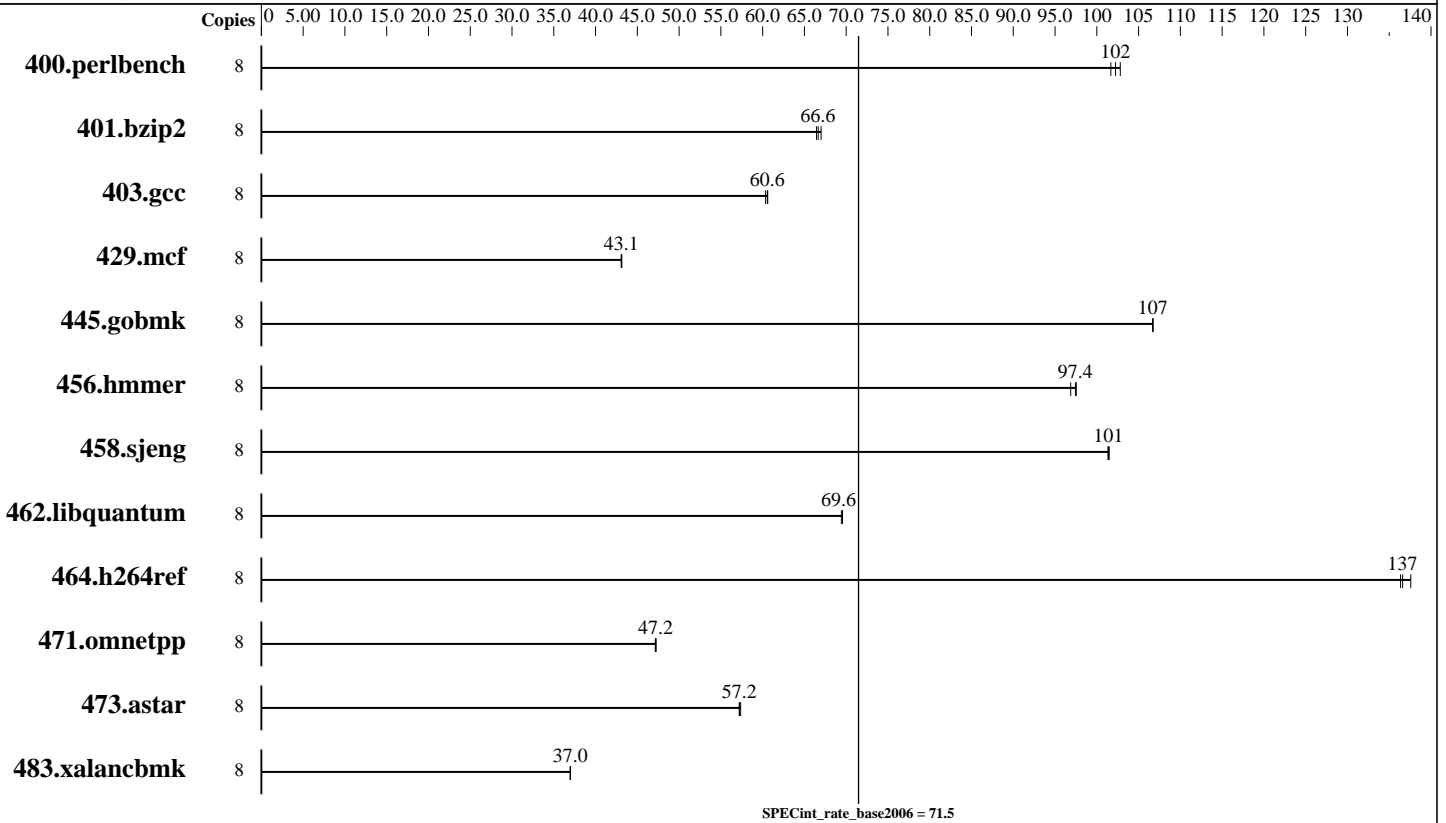
Test sponsor: Advanced Micro Devices

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



SPEC CINT2006 Result

Copyright 2006-2008 Standard Performance Evaluation Corporation

Supermicro

SPECint_rate2006 = Not Run

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

SPECint_rate_base2006 = 71.5

CPU2006 license: 49

Test date: Apr-2008

Test sponsor: Advanced Micro Devices

Hardware Availability: Apr-2008

Tested by: Advanced Micro Devices

Software Availability: Mar-2008

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

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2008 Standard Performance Evaluation Corporation

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

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.20080805.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20080805.xml

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Aug 5 15:29:25 2008 by SPEC CPU2006 PS/PDF formatter v6197.