SPEC® CINT2006 Result

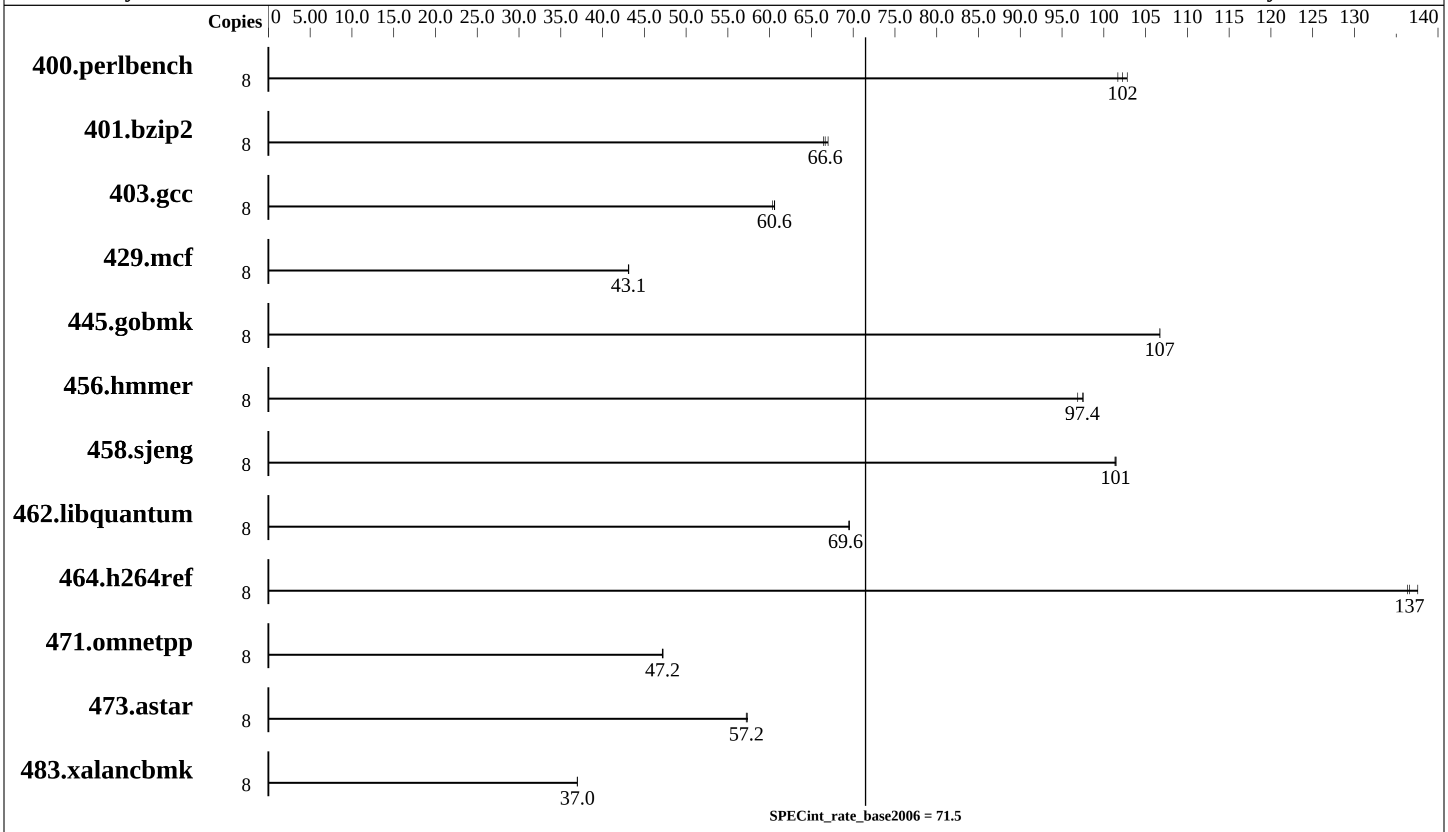
Supermicro
(Test Sponsor: Advanced Micro Devices)

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

SPECint®_rate2006 = Not Run

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



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 Copies	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Peak Copies	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio
400.perlbench	8	760	103	**765**	**102**	769	102							
401.bzip2	8	1152	67.0	1162	66.5	**1158**	**66.6**							
403.gcc	8	1067	60.4	1063	60.6	**1063**	**60.6**							
429.mcf	8	**1693**	**43.1**	1694	43.1	1691	43.1							
445.gobmk	8	786	107	**787**	**107**	787	107							
456.hmmer	8	**766**	**97.4**	765	97.5	770	96.9							
458.sjeng	8	954	101	955	101	**955**	**101**							
462.libquantum	8	2383	69.6	**2383**	**69.6**	2388	69.4							
464.h264ref	8	**1296**	**137**	1298	136	1287	138							
471.omnetpp	8	1060	47.1	**1059**	**47.2**	1058	47.2							
473.astar	8	982	57.2	979	57.4	**981**	**57.2**							
483.xalancbmk	8	1492	37.0	**1492**	**37.0**	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.hmmer: -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

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 Jul 22 18:43:56 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 5 August 2008.