



SPEC® CINT2006 Result

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ACTION S.A.

SPECint®_rate2006 = 81.6

ASERVER 442 S3 (Opteron 8350)

SPECint_rate_base2006 = 73.0

CPU2006 license: 9008

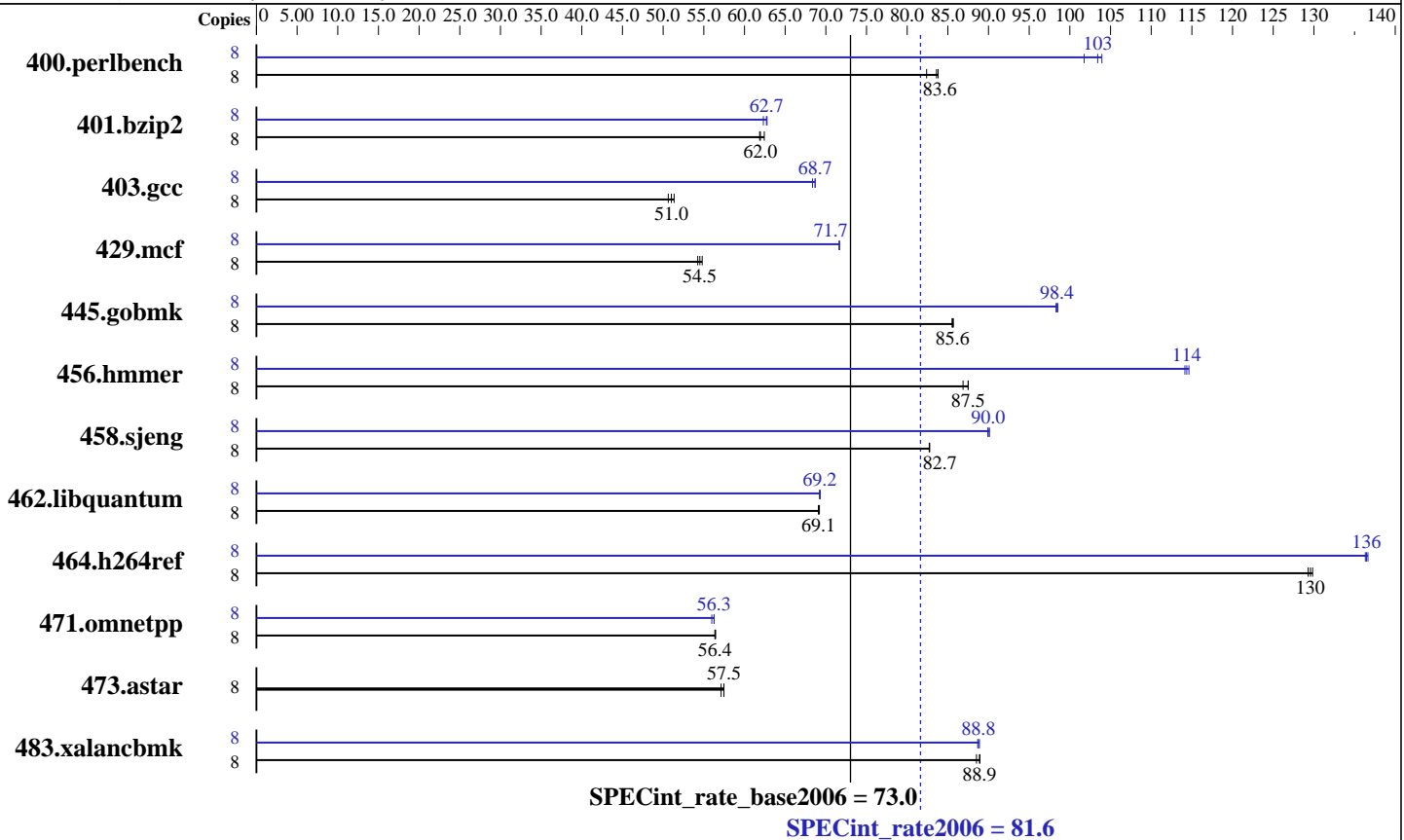
Test date: Aug-2008

Test sponsor: ACTION S.A.

Hardware Availability: Jul-2008

Tested by: Krzysztof Gierczyk

Software Availability: Feb-2007



Hardware

CPU Name: AMD Opteron 8350
 CPU Characteristics:
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2,4 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 (4x4GB, DDR2-667 CL5 ECC Reg Single Rank)
 Disk Subsystem: 1 x 250 GB, SATA II, 7200rpm
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
 Compiler: QLogic PathScale Compiler Suite, Release 3.0
 Auto Parallel: No
 File System: ReiserFS
 System State: Multi-user, run level 3
 Base Pointers: 32/64-bit
 Peak Pointers: 32/64-bit
 Other Software: SmartHeap 8.0 32 bit Library for Linux



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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	935	83.6	949	82.4	933	83.8	8	768	102	752	104	756	103
401.bzip2	8	1237	62.4	1248	61.9	1246	62.0	8	1239	62.3	1231	62.7	1230	62.8
403.gcc	8	1254	51.3	1272	50.6	1263	51.0	8	942	68.4	938	68.7	938	68.7
429.mcf	8	1338	54.5	1345	54.3	1331	54.8	8	1018	71.7	1018	71.7	1018	71.6
445.gobmk	8	980	85.6	981	85.5	980	85.7	8	854	98.3	853	98.4	852	98.5
456.hmmer	8	853	87.5	859	86.9	853	87.5	8	651	115	654	114	653	114
458.sjeng	8	1170	82.7	1170	82.7	1170	82.8	8	1074	90.1	1077	89.9	1076	90.0
462.libquantum	8	2395	69.2	2399	69.1	2399	69.1	8	2391	69.3	2394	69.2	2394	69.2
464.h264ref	8	1366	130	1364	130	1369	129	8	1297	136	1296	137	1299	136
471.omnetpp	8	887	56.4	886	56.5	887	56.4	8	889	56.3	893	56.0	889	56.3
473.astar	8	983	57.1	977	57.5	977	57.5	8	983	57.1	977	57.5	977	57.5
483.xalancbmk	8	621	88.9	624	88.5	621	89.0	8	623	88.7	622	88.8	621	88.9

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

General Notes

taskset utility used to bind cores to processes

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
456.hmmer: -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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Base Optimization Flags

C benchmarks:

-Ofast -OPT:malloc_alg=1

C++ benchmarks:

-Ofast -m32 -L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

Peak Compiler Invocation

Same as Base Compiler Invocation

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -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
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

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.hmmer: -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

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Peak Optimization Flags (Continued)

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 -lsmarheap

473.astar: basepeak = yes

483.xalancbmk: -Ofast -m32 -OPT:unroll_times_max=8
-L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmarheap

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.xml

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Tested with SPEC CPU2006 v1.0.1.
Report generated on Mon Jul 13 21:07:37 2009 by SPEC CPU2006 PS/PDF formatter v6323.