



SPEC® CINT2006 Result

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Acer Incorporated

SPECint®_rate2006 = 54.4

Acer Altos G5450 (AMD Opteron 2222 SE)

SPECint_rate_base2006 = 48.2

CPU2006 license: 97

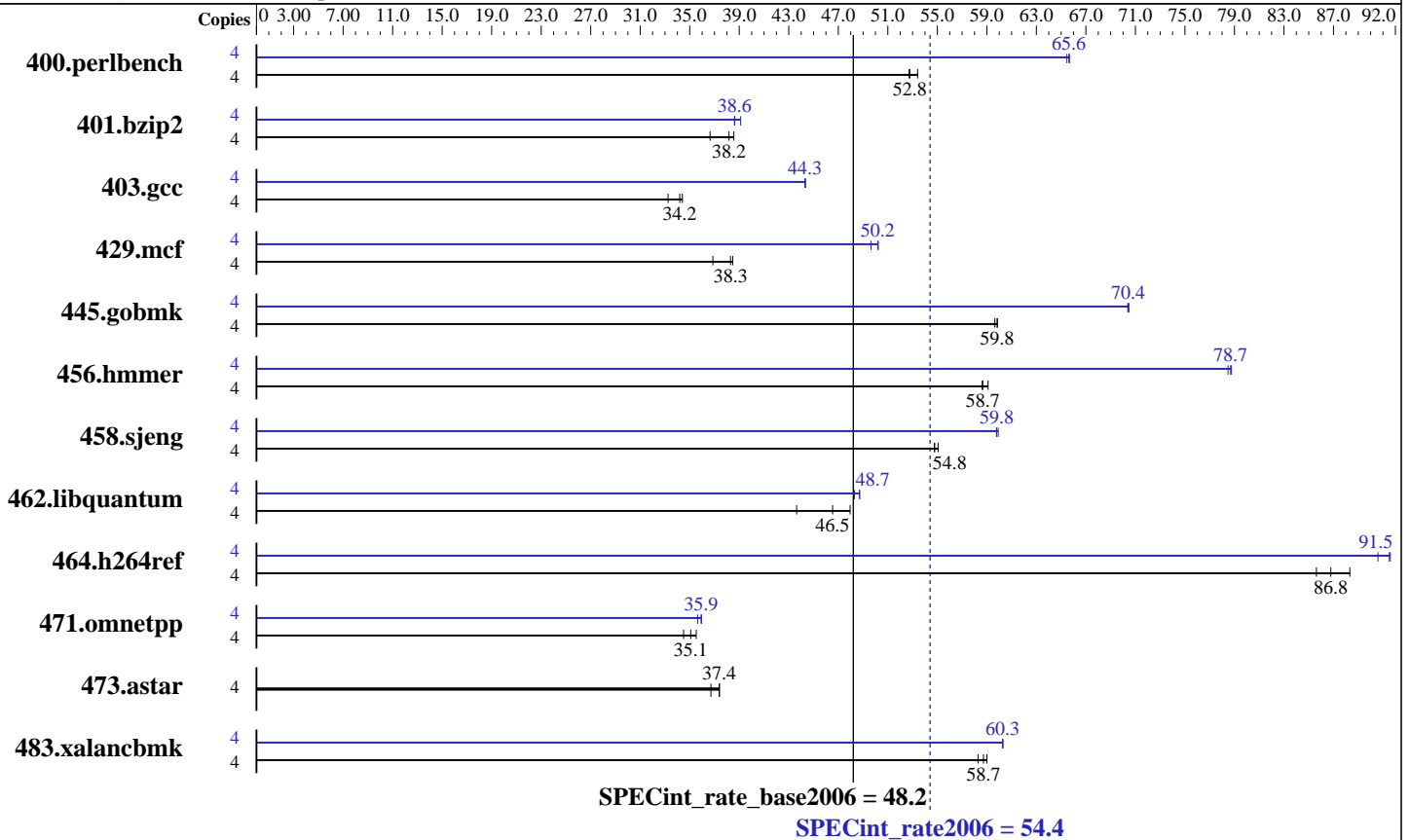
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jun-2007

Hardware Availability: Jun-2007

Software Availability: Jun-2007



Hardware

CPU Name: AMD Opteron 2222 SE
 CPU Characteristics:
 CPU MHz: 3000
 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: 16 GB (16x1GB, DDR2-667 CL5 ECC Reg)
 Disk Subsystem: 1 x SATA, 160 GB
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 10 EM64T kernel
 Compiler: QLogic PathScale Compiler Suite, Release 3.0
 Auto Parallel: No
 File System: ReiserFS
 System State: Default
 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	4	741	52.7	<u>741</u>	<u>52.8</u>	732	53.4	4	597	65.5	<u>595</u>	<u>65.6</u>	595	65.7
401.bzip2	4	1053	36.6	<u>1011</u>	<u>38.2</u>	1001	38.6	4	1000	38.6	<u>999</u>	<u>38.6</u>	987	39.1
403.gcc	4	968	33.2	936	34.4	<u>942</u>	<u>34.2</u>	4	<u>727</u>	<u>44.3</u>	726	44.4	727	44.3
429.mcf	4	989	36.9	<u>953</u>	<u>38.3</u>	948	38.5	4	735	49.6	726	50.2	<u>727</u>	<u>50.2</u>
445.gobmk	4	703	59.6	701	59.8	<u>701</u>	<u>59.8</u>	4	596	70.4	<u>596</u>	<u>70.4</u>	595	70.5
456.hmmer	4	637	58.6	<u>636</u>	<u>58.7</u>	632	59.1	4	476	78.5	<u>474</u>	<u>78.7</u>	474	78.8
458.sjeng	4	884	54.8	<u>884</u>	<u>54.8</u>	879	55.1	4	810	59.8	808	59.9	<u>809</u>	<u>59.8</u>
462.libquantum	4	1899	43.6	<u>1781</u>	<u>46.5</u>	1728	48.0	4	1716	48.3	<u>1701</u>	<u>48.7</u>	1701	48.7
464.h264ref	4	1034	85.6	<u>1020</u>	<u>86.8</u>	1002	88.3	4	966	91.6	<u>967</u>	<u>91.5</u>	977	90.6
471.omnetpp	4	725	34.5	704	35.5	<u>713</u>	<u>35.1</u>	4	701	35.6	<u>696</u>	<u>35.9</u>	695	35.9
473.astar	4	765	36.7	751	37.4	<u>751</u>	<u>37.4</u>	4	765	36.7	751	37.4	<u>751</u>	<u>37.4</u>
483.xalancbmk	4	474	58.3	<u>470</u>	<u>58.7</u>	468	59.0	4	458	60.3	<u>458</u>	<u>60.3</u>	458	60.3

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

C benchmarks:

pathcc

C++ benchmarks:

pathCC

Peak Portability Flags

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

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

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Peak Optimization Flags (Continued)

456.hmmcr: -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

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 -lsmartheap

473.astar: basepeak = yes

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

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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