



SPEC® CINT2006 Result

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Acer Incorporated

SPECint®_rate2006 = 27.1

Acer Altos R5250 (AMD Opteron 2222 SE)

SPECint_rate_base2006 = 24.3

CPU2006 license: 97

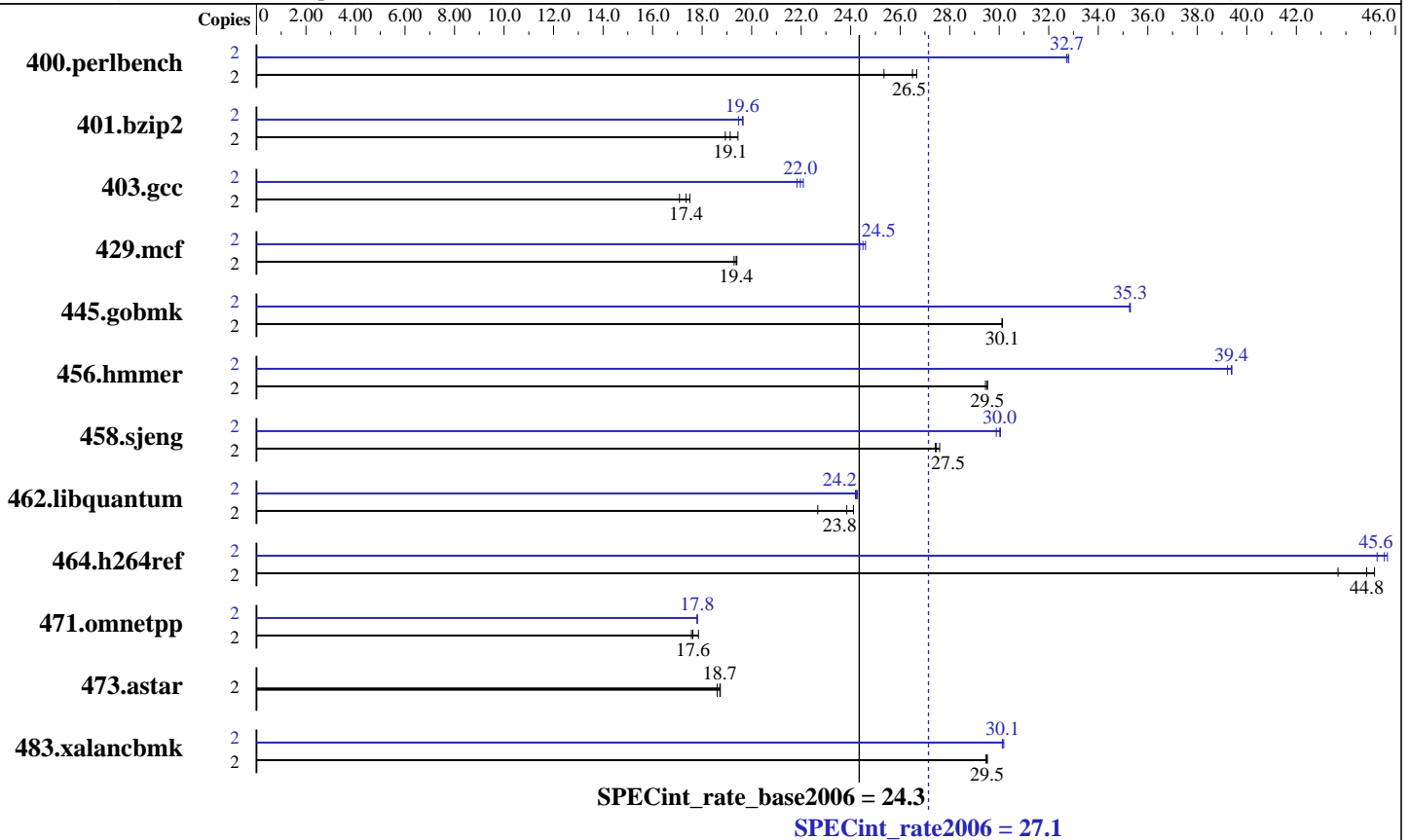
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jun-2007

Hardware Availability: Dec-2007

Software Availability: Jun-2007



Hardware

CPU Name: AMD Opteron 2222 SE
 CPU Characteristics:
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 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	2	<u>737</u>	<u>26.5</u>	771	25.3	733	26.7	2	596	32.8	<u>597</u>	<u>32.7</u>	597	32.7
401.bzip2	2	1019	18.9	<u>1009</u>	<u>19.1</u>	992	19.4	2	991	19.5	<u>983</u>	<u>19.6</u>	982	19.7
403.gcc	2	942	17.1	920	17.5	<u>928</u>	<u>17.4</u>	2	729	22.1	737	21.8	<u>733</u>	<u>22.0</u>
429.mcf	2	<u>941</u>	<u>19.4</u>	945	19.3	940	19.4	2	749	24.4	741	24.6	<u>745</u>	<u>24.5</u>
445.gobmk	2	<u>696</u>	<u>30.1</u>	696	30.1	697	30.1	2	594	35.3	<u>595</u>	<u>35.3</u>	595	35.3
456.hmmer	2	634	29.4	<u>632</u>	<u>29.5</u>	632	29.5	2	476	39.2	<u>474</u>	<u>39.4</u>	474	39.4
458.sjeng	2	883	27.4	877	27.6	<u>881</u>	<u>27.5</u>	2	805	30.0	810	29.9	<u>806</u>	<u>30.0</u>
462.libquantum	2	1828	22.7	<u>1738</u>	<u>23.8</u>	1719	24.1	2	1707	24.3	1713	24.2	<u>1710</u>	<u>24.2</u>
464.h264ref	2	<u>987</u>	<u>44.8</u>	1013	43.7	980	45.2	2	<u>972</u>	<u>45.6</u>	978	45.3	969	45.7
471.omnetpp	2	711	17.6	700	17.9	<u>709</u>	<u>17.6</u>	2	702	17.8	702	17.8	<u>702</u>	<u>17.8</u>
473.astar	2	754	18.6	<u>750</u>	<u>18.7</u>	749	18.7	2	754	18.6	<u>750</u>	<u>18.7</u>	749	18.7
483.xalancbmk	2	468	29.5	<u>468</u>	<u>29.5</u>	467	29.5	2	457	30.2	458	30.1	<u>458</u>	<u>30.1</u>

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

This result was measured on the Acer Altos G5450

The Altos G5450 and Altos R5250 are electronically equivalent.

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

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Base Portability Flags (Continued)

464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

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.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

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Peak Optimization Flags (Continued)

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

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

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