



SPEC® CINT2006 Result

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Acer Incorporated

SPECint®_rate2006 = 50.4

Acer Altos R5250 (AMD Opteron 2220)

SPECint_rate_base2006 = 45.2

CPU2006 license: 97

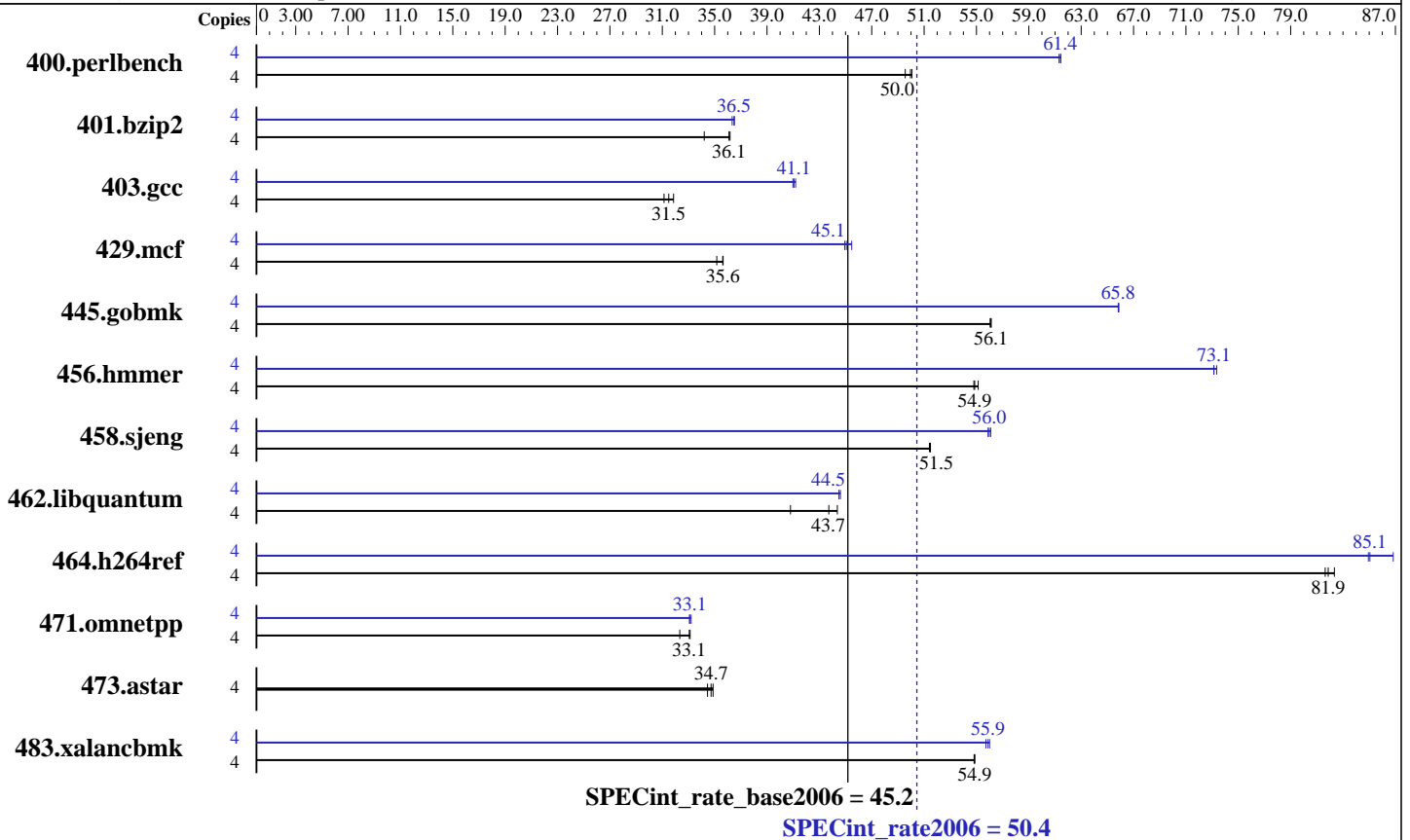
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Dec-2007

Software Availability: Jun-2007



Hardware

CPU Name: AMD Opteron 2220
 CPU Characteristics:
 CPU MHz: 2800
 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 | 789 | 49.6 | <u>782</u> | <u>50.0</u> | 780 | 50.1 | 4 | <u>636</u> | <u>61.4</u> | 636 | 61.4 | 637 | 61.3 |
| 401.bzip2 | 4 | 1129 | 34.2 | <u>1069</u> | <u>36.1</u> | 1067 | 36.2 | 4 | <u>1058</u> | <u>36.5</u> | 1062 | 36.3 | 1057 | 36.5 |
| 403.gcc | 4 | 1034 | 31.1 | <u>1022</u> | <u>31.5</u> | 1011 | 31.9 | 4 | 782 | 41.2 | 786 | 41.0 | <u>784</u> | <u>41.1</u> |
| 429.mcf | 4 | 1037 | 35.2 | 1023 | 35.6 | <u>1024</u> | <u>35.6</u> | 4 | 812 | 44.9 | 802 | 45.5 | <u>810</u> | <u>45.1</u> |
| 445.gobmk | 4 | 749 | 56.0 | <u>748</u> | <u>56.1</u> | 748 | 56.1 | 4 | 637 | 65.8 | 637 | 65.9 | <u>637</u> | <u>65.8</u> |
| 456.hmmer | 4 | <u>680</u> | <u>54.9</u> | 681 | 54.8 | 677 | 55.1 | 4 | 509 | 73.4 | 510 | 73.1 | <u>510</u> | <u>73.1</u> |
| 458.sjeng | 4 | 940 | 51.5 | <u>940</u> | <u>51.5</u> | 941 | 51.4 | 4 | <u>865</u> | <u>56.0</u> | 863 | 56.1 | 866 | 55.9 |
| 462.libquantum | 4 | 2032 | 40.8 | <u>1896</u> | <u>43.7</u> | 1868 | 44.4 | 4 | 1863 | 44.5 | <u>1862</u> | <u>44.5</u> | 1858 | 44.6 |
| 464.h264ref | 4 | 1084 | 81.6 | 1075 | 82.3 | <u>1081</u> | <u>81.9</u> | 4 | <u>1041</u> | <u>85.1</u> | 1019 | 86.8 | 1042 | 84.9 |
| 471.omnetpp | 4 | 773 | 32.3 | <u>756</u> | <u>33.1</u> | 755 | 33.1 | 4 | 753 | 33.2 | <u>756</u> | <u>33.1</u> | 756 | 33.1 |
| 473.astar | 4 | 815 | 34.5 | <u>809</u> | <u>34.7</u> | 805 | 34.9 | 4 | 815 | 34.5 | <u>809</u> | <u>34.7</u> | 805 | 34.9 |
| 483.xalancbmk | 4 | <u>503</u> | <u>54.9</u> | 503 | 54.8 | 503 | 54.9 | 4 | 493 | 56.0 | 495 | 55.7 | <u>494</u> | <u>55.9</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 questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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