



# SPEC<sup>®</sup> CINT2006 Result

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## Acer Incorporated

### SPECint<sup>®</sup>\_rate2006 = 50.4

## Acer Altos G5450 (AMD Opteron 2220)

### SPECint\_rate\_base2006 = 45.2

CPU2006 license: 97

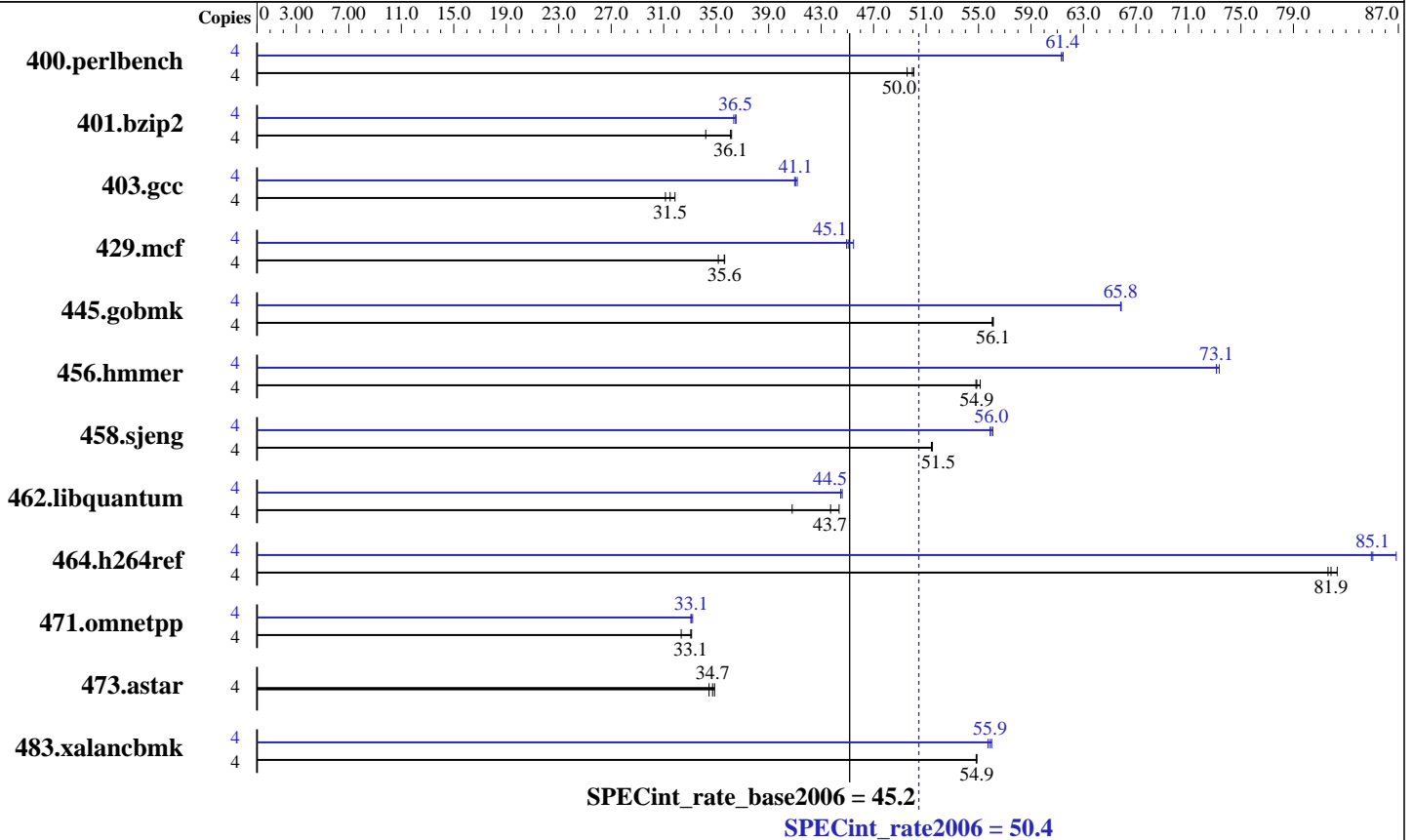
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Jun-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

## 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.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

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

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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