



# SPEC® CINT2006 Result

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## Acer Incorporated

### SPECint®\_rate2006 = 54.4

### Acer Altos R5250 (AMD Opteron 2222 SE)

### SPECint\_rate\_base2006 = 48.2

CPU2006 license: 97

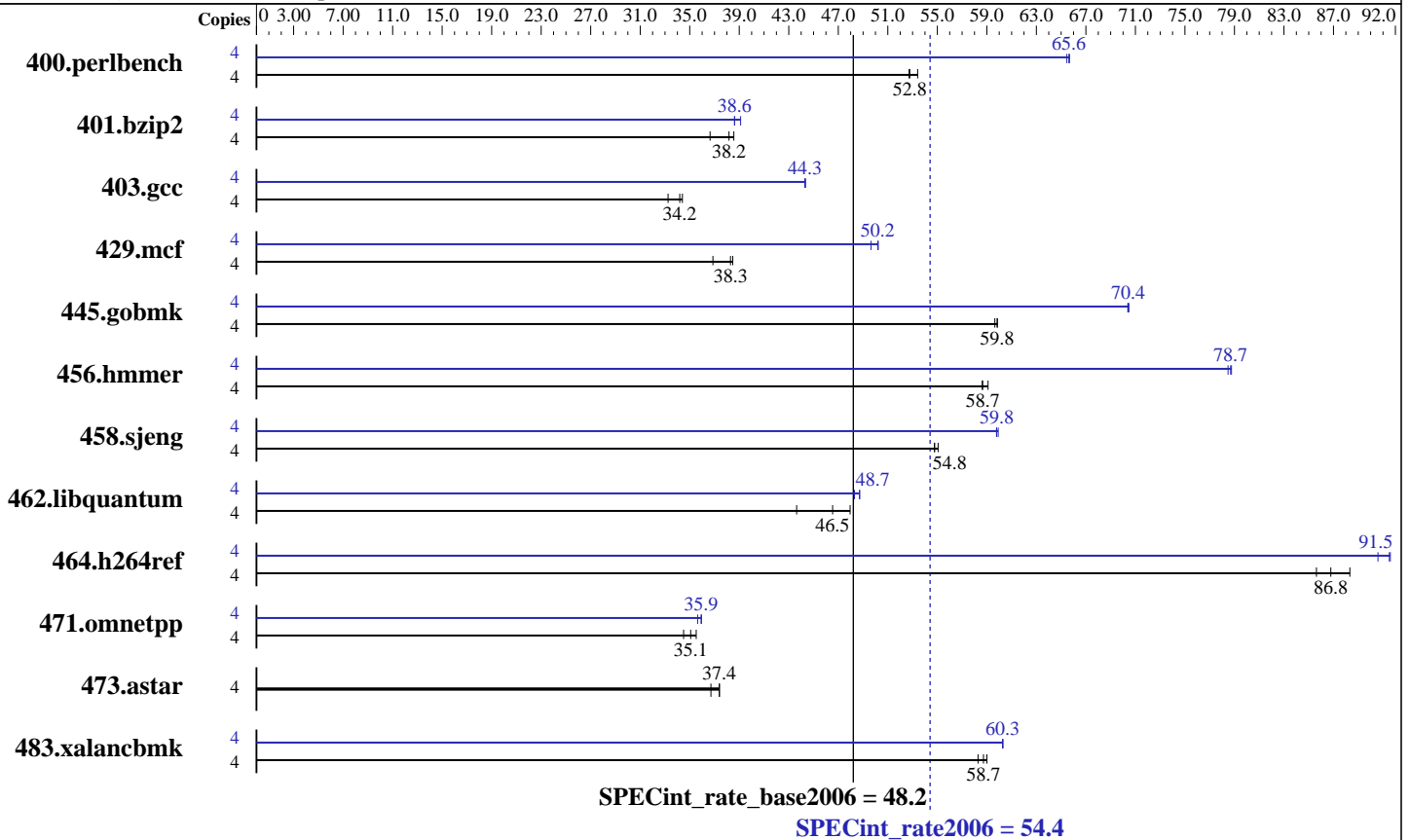
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jun-2007

Hardware Availability: Dec-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	<b><u>741</u></b>	<b><u>52.8</u></b>	732	53.4	4	597	65.5	<b><u>595</u></b>	<b><u>65.6</u></b>	595	65.7
401.bzip2	4	1053	36.6	<b><u>1011</u></b>	<b><u>38.2</u></b>	1001	38.6	4	1000	38.6	<b><u>999</u></b>	<b><u>38.6</u></b>	987	39.1
403.gcc	4	968	33.2	936	34.4	<b><u>942</u></b>	<b><u>34.2</u></b>	4	<b><u>727</u></b>	<b><u>44.3</u></b>	726	44.4	727	44.3
429.mcf	4	989	36.9	<b><u>953</u></b>	<b><u>38.3</u></b>	948	38.5	4	735	49.6	726	50.2	<b><u>727</u></b>	<b><u>50.2</u></b>
445.gobmk	4	703	59.6	701	59.8	<b><u>701</u></b>	<b><u>59.8</u></b>	4	596	70.4	<b><u>596</u></b>	<b><u>70.4</u></b>	595	70.5
456.hmmer	4	637	58.6	<b><u>636</u></b>	<b><u>58.7</u></b>	632	59.1	4	476	78.5	<b><u>474</u></b>	<b><u>78.7</u></b>	474	78.8
458.sjeng	4	884	54.8	<b><u>884</u></b>	<b><u>54.8</u></b>	879	55.1	4	810	59.8	808	59.9	<b><u>809</u></b>	<b><u>59.8</u></b>
462.libquantum	4	1899	43.6	<b><u>1781</u></b>	<b><u>46.5</u></b>	1728	48.0	4	1716	48.3	<b><u>1701</u></b>	<b><u>48.7</u></b>	1701	48.7
464.h264ref	4	1034	85.6	<b><u>1020</u></b>	<b><u>86.8</u></b>	1002	88.3	4	966	91.6	<b><u>967</u></b>	<b><u>91.5</u></b>	977	90.6
471.omnetpp	4	725	34.5	704	35.5	<b><u>713</u></b>	<b><u>35.1</u></b>	4	701	35.6	<b><u>696</u></b>	<b><u>35.9</u></b>	695	35.9
473.astar	4	765	36.7	751	37.4	<b><u>751</u></b>	<b><u>37.4</u></b>	4	765	36.7	751	37.4	<b><u>751</u></b>	<b><u>37.4</u></b>
483.xalancbmk	4	474	58.3	<b><u>470</u></b>	<b><u>58.7</u></b>	468	59.0	4	458	60.3	<b><u>458</u></b>	<b><u>60.3</u></b>	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

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](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 questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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