



# SPEC<sup>®</sup> CINT2006 Result

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## Acer Incorporated

SPECint<sup>®</sup>\_rate2006 = 40.7

## Acer Altos G5450 (AMD Opteron 2212)

SPECint\_rate\_base2006 = 36.4

CPU2006 license: 97

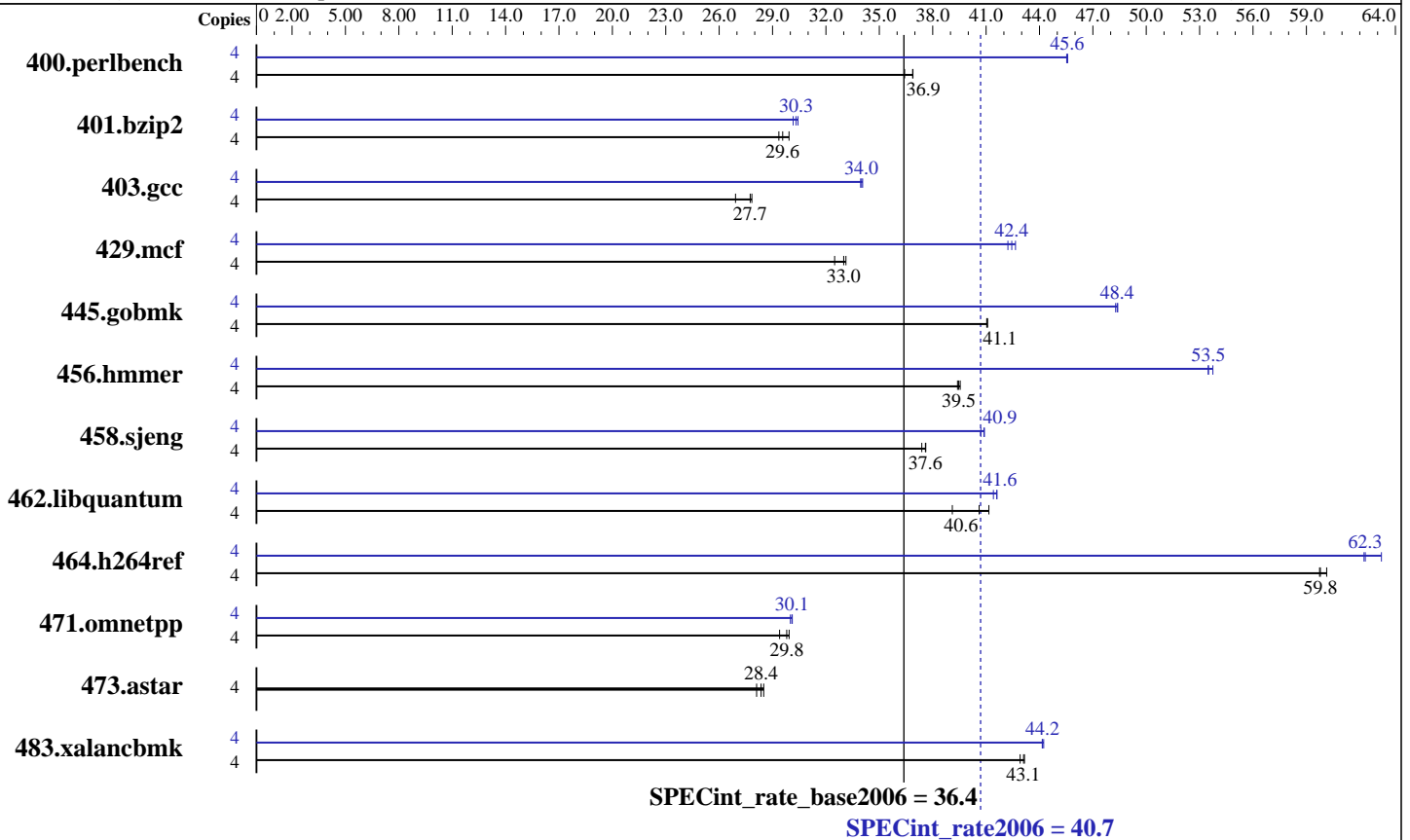
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Jun-2007

Software Availability: Feb-2007



### Hardware

CPU Name: AMD Opteron 2212  
 CPU Characteristics: 2000  
 CPU MHz: Integrated  
 FPU: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) enabled: 1,2 chips  
 CPU(s) orderable: 64 KB I + 64 KB D on chip per core  
 Primary Cache: 1 MB I+D on chip per core  
 Secondary Cache: None  
 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 2.6.16.21-0.8-smp)  
 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	1073	36.4	<b>1060</b>	<b>36.9</b>	1059	36.9	4	858	45.5	<b>858</b>	<b>45.6</b>	857	45.6
401.bzip2	4	1315	29.4	<b>1305</b>	<b>29.6</b>	1290	29.9	4	1269	30.4	1280	30.2	<b>1273</b>	<b>30.3</b>
403.gcc	4	1196	26.9	<b>1161</b>	<b>27.7</b>	1157	27.8	4	<b>947</b>	<b>34.0</b>	948	33.9	945	34.1
429.mcf	4	1123	32.5	<b>1106</b>	<b>33.0</b>	1101	33.1	4	864	42.2	<b>859</b>	<b>42.4</b>	855	42.7
445.gobmk	4	1023	41.0	1022	41.1	<b>1022</b>	<b>41.1</b>	4	<b>868</b>	<b>48.4</b>	867	48.4	869	48.3
456.hmmer	4	947	39.4	944	39.5	<b>946</b>	<b>39.5</b>	4	694	53.7	<b>698</b>	<b>53.5</b>	698	53.5
458.sjeng	4	1295	37.4	<b>1288</b>	<b>37.6</b>	1287	37.6	4	1189	40.7	<b>1184</b>	<b>40.9</b>	1183	40.9
462.libquantum	4	2120	39.1	<b>2041</b>	<b>40.6</b>	2014	41.2	4	2001	41.4	<b>1992</b>	<b>41.6</b>	1992	41.6
464.h264ref	4	1482	59.7	<b>1481</b>	<b>59.8</b>	1472	60.1	4	1400	63.2	1422	62.2	<b>1421</b>	<b>62.3</b>
471.omnetpp	4	850	29.4	<b>839</b>	<b>29.8</b>	835	29.9	4	833	30.0	830	30.1	<b>831</b>	<b>30.1</b>
473.astar	4	999	28.1	<b>990</b>	<b>28.4</b>	985	28.5	4	999	28.1	<b>990</b>	<b>28.4</b>	985	28.5
483.xalancbmk	4	643	42.9	640	43.2	<b>640</b>	<b>43.1</b>	4	<b>625</b>	<b>44.2</b>	625	44.2	624	44.2

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.hmmmer: -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).

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 14:05:31 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 2 October 2007.