



# SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Acer Incorporated

### SPECint®\_rate2006 = 43.7

## Acer Altos G540 (Intel Xeon E5320)

### SPECint\_rate\_base2006 = 40.2

CPU2006 license: 97

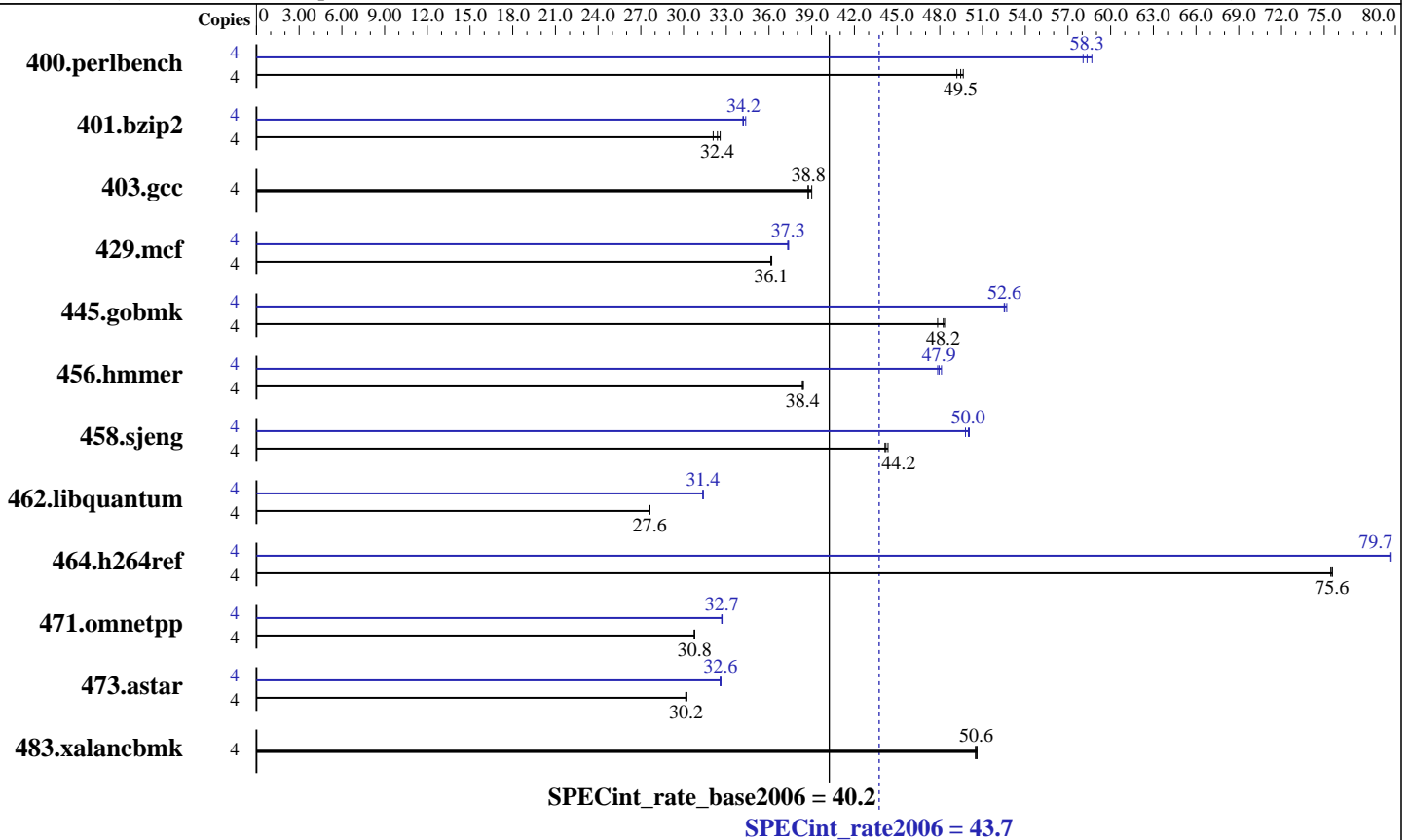
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



### Hardware

CPU Name: Intel Xeon E5320  
 CPU Characteristics: 1066MHz system bus  
 CPU MHz: 1860  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip  
 CPU(s) orderable: 1, 2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores  
 L3 Cache: None  
 Other Cache: None  
 Memory: 16 GB (8 x 2048MB ECC FB-DIMM DDR2-667 CL5-5-5)  
 Disk Subsystem: 1 x 73 GB 10000RPM SAS HDD  
 Other Hardware: None

### Software

Operating System: SUSE Linux Enterprise Server 10 EM64T (kernel 2.6.16.21-0.8-smp)  
 Compiler: Intel C++ Compiler for Linux32 version 10.0 Build 20070426 Package ID: l\_cc\_p\_10.0.023  
 Auto Parallel: No  
 File System: ReiserFS  
 System State: Multi-user, run level 3  
 Base Pointers: 32-bit  
 Peak Pointers: 32/64-bit  
 Other Software: MicroQuill SmartHeap Library 8.1



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECint\_rate2006 = 43.7

Acer Altos G540 (Intel Xeon E5320)

SPECint\_rate\_base2006 = 40.2

CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007

## Results Table

| Benchmark      | Base   |             |             |            |             |             | Peak        |        |             |             |            |             |             |             |
|----------------|--------|-------------|-------------|------------|-------------|-------------|-------------|--------|-------------|-------------|------------|-------------|-------------|-------------|
|                | Copies | Seconds     | Ratio       | Seconds    | Ratio       | Seconds     | Ratio       | Copies | Seconds     | Ratio       | Seconds    | Ratio       | Seconds     | Ratio       |
| 400.perlbench  | 4      | 794         | 49.2        | 787        | 49.6        | <b>790</b>  | <b>49.5</b> | 4      | 673         | 58.1        | 666        | 58.7        | <b>670</b>  | <b>58.3</b> |
| 401.bzip2      | 4      | 1185        | 32.6        | 1203       | 32.1        | <b>1192</b> | <b>32.4</b> | 4      | <b>1128</b> | <b>34.2</b> | 1123       | 34.4        | 1130        | 34.2        |
| 403.gcc        | 4      | <b>831</b>  | <b>38.8</b> | 831        | 38.7        | 826         | 39.0        | 4      | <b>831</b>  | <b>38.8</b> | 831        | 38.7        | 826         | 39.0        |
| 429.mcf        | 4      | 1008        | 36.2        | 1010       | 36.1        | <b>1009</b> | <b>36.1</b> | 4      | <b>977</b>  | <b>37.3</b> | 977        | 37.3        | 976         | 37.4        |
| 445.gobmk      | 4      | 868         | 48.3        | 877        | 47.8        | <b>870</b>  | <b>48.2</b> | 4      | 799         | 52.5        | <b>798</b> | <b>52.6</b> | 796         | 52.7        |
| 456.hammer     | 4      | 971         | 38.4        | <b>973</b> | <b>38.4</b> | 973         | 38.4        | 4      | 780         | 47.8        | <b>778</b> | <b>47.9</b> | 776         | 48.1        |
| 458.sjeng      | 4      | <b>1095</b> | <b>44.2</b> | 1091       | 44.4        | 1096        | 44.1        | 4      | 967         | 50.1        | <b>968</b> | <b>50.0</b> | 972         | 49.8        |
| 462.libquantum | 4      | <b>2999</b> | <b>27.6</b> | 3002       | 27.6        | 2999        | 27.6        | 4      | <b>2642</b> | <b>31.4</b> | 2641       | 31.4        | 2643        | 31.4        |
| 464.h264ref    | 4      | <b>1172</b> | <b>75.6</b> | 1171       | 75.6        | 1173        | 75.5        | 4      | 1111        | 79.7        | 1112       | 79.6        | <b>1111</b> | <b>79.7</b> |
| 471.omnetpp    | 4      | 813         | 30.8        | <b>813</b> | <b>30.8</b> | 812         | 30.8        | 4      | 765         | 32.7        | <b>765</b> | <b>32.7</b> | 764         | 32.7        |
| 473.astar      | 4      | 929         | 30.2        | 931        | 30.2        | <b>930</b>  | <b>30.2</b> | 4      | 861         | 32.6        | <b>861</b> | <b>32.6</b> | 862         | 32.6        |
| 483.xalancbmk  | 4      | 545         | 50.6        | <b>546</b> | <b>50.6</b> | 547         | 50.5        | 4      | 545         | 50.6        | <b>546</b> | <b>50.6</b> | 547         | 50.5        |

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## General Notes

taskset was used to bind copies to cores

## Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32

462.libquantum: -DSPEC\_CPU\_LINUX

483.xalancbmk: -DSPEC\_CPU\_LINUX

## Base Optimization Flags

C benchmarks:

-fast

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECint\_rate2006 = 43.7

Acer Altos G540 (Intel Xeon E5320)

SPECint\_rate\_base2006 = 40.2

CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007

## Base Optimization Flags (Continued)

C++ benchmarks:

```
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/spec/cpu2006.1.0/lib -lsmartheap
```

## Base Other Flags

C benchmarks:

```
403.gcc: -Dalloca=_alloca
```

## Peak Compiler Invocation

C benchmarks (except as noted below):

icc

```
401.bzip2: /opt/intel/cce/10.0.023/bin/icc
-L/opt/intel/cce/10.0.023/lib
-I/opt/intel/cce/10.0.023/include
```

```
456.hmmer: /opt/intel/cce/10.0.023/bin/icc
-L/opt/intel/cce/10.0.023/lib
-I/opt/intel/cce/10.0.023/include
```

C++ benchmarks:

icpc

## Peak Portability Flags

```
400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX
```

## Peak Optimization Flags

C benchmarks:

```
400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias
-prefetch
```

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECint\_rate2006 = 43.7

Acer Altos G540 (Intel Xeon E5320)

SPECint\_rate\_base2006 = 40.2

CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007

## Peak Optimization Flags (Continued)

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast

403.gcc: basepeak = yes

429.mcf: -fast -prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo  
-no-prec\_div -ansi-alias

456.hmmer: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2  
-ansi-alias

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -Ob0  
-prefetch -opt-streaming-stores always

464.h264ref: Same as 456.hmmer

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo  
-no-prec\_div -ansi-alias -Wl,-z,muldefs  
-L/spec/cpu2006.1.0/lib -lsmartheap

473.astar: Same as 471.omnetpp

483.xalancbmk: basepeak = yes

## Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.16.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.16.xml>



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECint\_rate2006 = 43.7

Acer Altos G540 (Intel Xeon E5320)

SPECint\_rate\_base2006 = 40.2

CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 13:07:27 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 4 September 2007.