



# SPEC® CINT2006 Result

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## Acer Incorporated

## SPECint®\_rate2006 = 68.1

## Acer Altos G540 (Intel Xeon E5310)

## SPECint\_rate\_base2006 = 63.0

CPU2006 license: 97

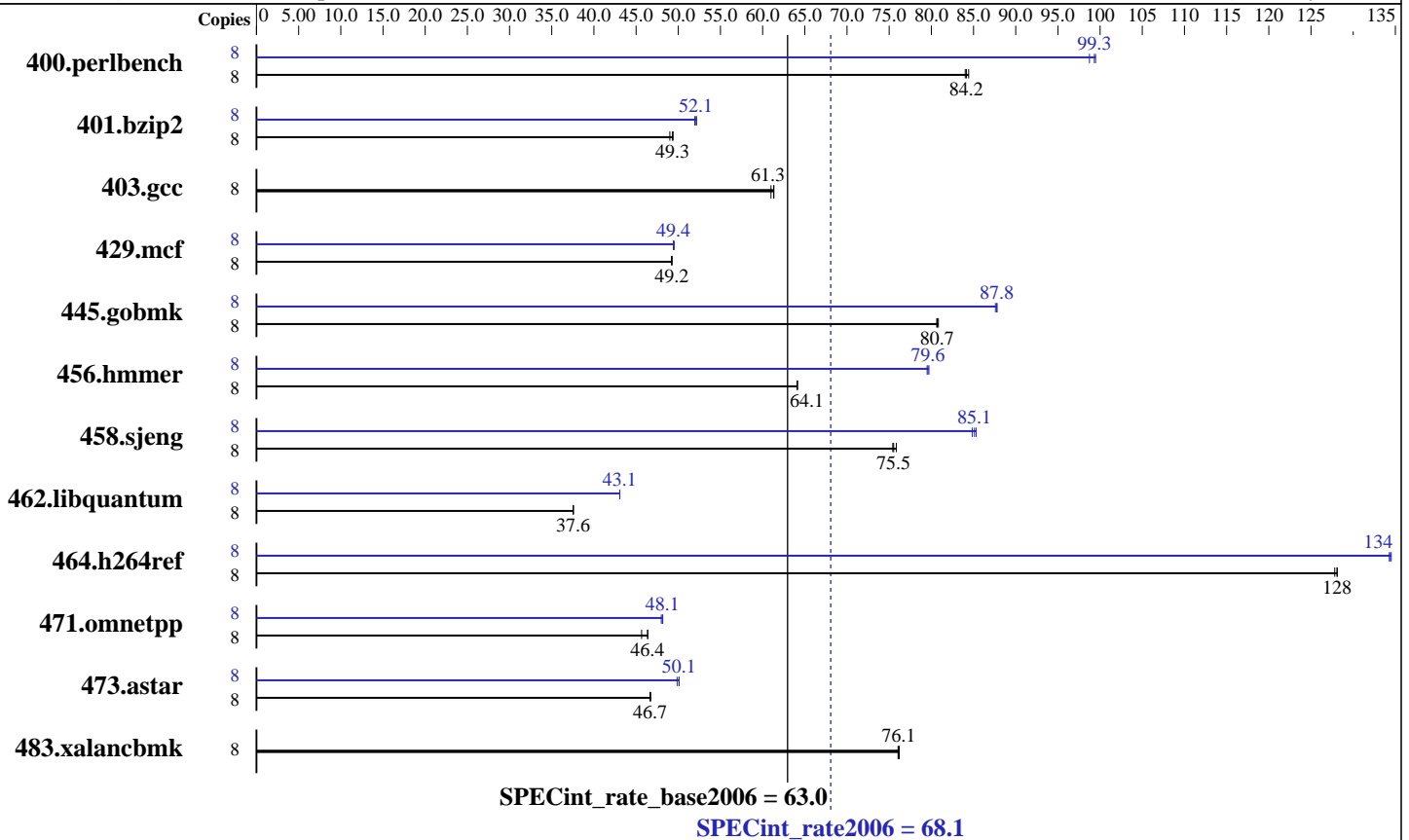
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Nov-2006

Software Availability: May-2007



### Hardware

CPU Name: Intel Xeon E5310  
 CPU Characteristics: 1066MHz system bus  
 CPU MHz: 1666  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
 CPU(s) orderable: 1,2 chip  
 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 SAS, 10000RPM  
 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



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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  | 8      | <u>929</u>  | <u>84.2</u> | 926         | 84.4        | 930         | 84.0        | 8      | 786         | 99.5        | <u>787</u>  | <u>99.3</u> | 792         | 98.7        |
| 401.bzip2      | 8      | 1575        | 49.0        | <u>1566</u> | <u>49.3</u> | 1563        | 49.4        | 8      | 1480        | 52.2        | <u>1482</u> | <u>52.1</u> | 1486        | 52.0        |
| 403.gcc        | 8      | 1050        | 61.3        | <u>1050</u> | <u>61.3</u> | 1056        | 61.0        | 8      | 1050        | 61.3        | <u>1050</u> | <u>61.3</u> | 1056        | 61.0        |
| 429.mcf        | 8      | <u>1482</u> | <u>49.2</u> | 1481        | 49.3        | 1483        | 49.2        | 8      | 1473        | 49.5        | <u>1476</u> | <u>49.4</u> | 1476        | 49.4        |
| 445.gobmk      | 8      | 1038        | 80.8        | <u>1040</u> | <u>80.7</u> | 1041        | 80.6        | 8      | 956         | 87.8        | <u>956</u>  | <u>87.8</u> | 958         | 87.6        |
| 456.hammer     | 8      | 1164        | 64.1        | 1164        | 64.1        | <u>1164</u> | <u>64.1</u> | 8      | 939         | 79.5        | <u>938</u>  | <u>79.6</u> | 936         | 79.7        |
| 458.sjeng      | 8      | 1283        | 75.4        | <u>1282</u> | <u>75.5</u> | 1276        | 75.9        | 8      | 1135        | 85.3        | <u>1137</u> | <u>85.1</u> | 1141        | 84.8        |
| 462.libquantum | 8      | 4413        | 37.6        | <u>4414</u> | <u>37.6</u> | 4415        | 37.5        | 8      | <u>3849</u> | <u>43.1</u> | 3849        | 43.1        | 3849        | 43.1        |
| 464.h264ref    | 8      | <u>1382</u> | <u>128</u>  | 1382        | 128         | 1385        | 128         | 8      | <u>1317</u> | <u>134</u>  | 1318        | 134         | 1316        | 135         |
| 471.omnetpp    | 8      | <u>1078</u> | <u>46.4</u> | 1078        | 46.4        | 1095        | 45.7        | 8      | 1038        | 48.2        | 1042        | 48.0        | <u>1039</u> | <u>48.1</u> |
| 473.astar      | 8      | <u>1203</u> | <u>46.7</u> | 1202        | 46.7        | 1204        | 46.7        | 8      | <u>1121</u> | <u>50.1</u> | 1126        | 49.9        | 1121        | 50.1        |
| 483.xalancbmk  | 8      | <u>725</u>  | <u>76.1</u> | 724         | 76.2        | 726         | 76.1        | 8      | <u>725</u>  | <u>76.1</u> | 724         | 76.2        | 726         | 76.1        |

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

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## 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
```

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## 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>



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

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