



# SPEC® CINT2006 Result

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## Acer Incorporated

## SPECint®\_rate2006 = 52.1

## Acer Altos G540 (Intel Xeon E5345)

## SPECint\_rate\_base2006 = 48.0

CPU2006 license: 97

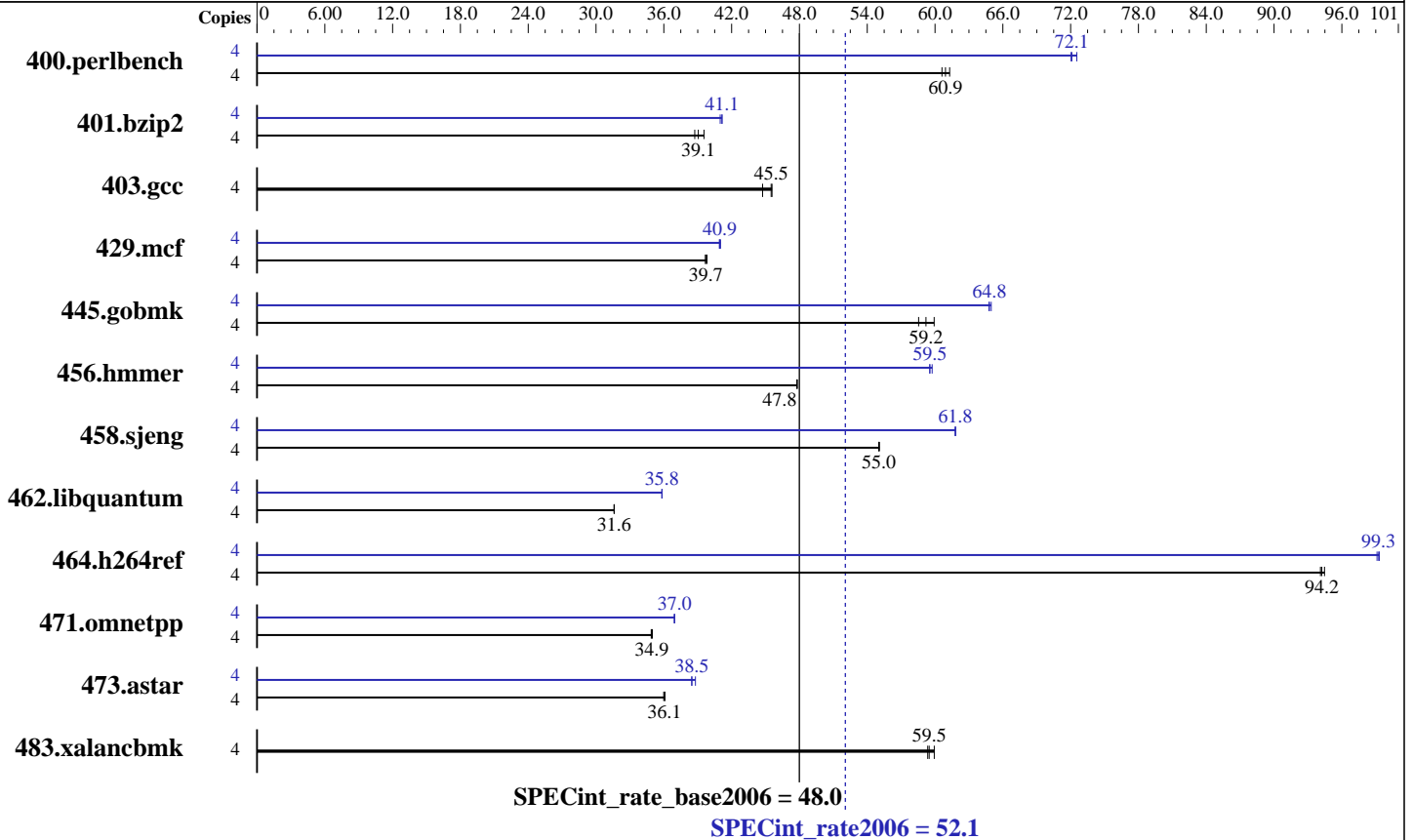
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



### Hardware

CPU Name: Intel Xeon E5345  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2333  
 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: Default  
 Base Pointers: 32-bit  
 Peak Pointers: 32-bit  
 Other Software: None



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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	645	60.6	638	61.3	<b>641</b>	<b>60.9</b>	4	539	72.5	543	72.0	<b>542</b>	<b>72.1</b>
401.bzip2	4	996	38.7	976	39.6	<b>988</b>	<b>39.1</b>	4	942	41.0	938	41.1	<b>938</b>	<b>41.1</b>
403.gcc	4	<b>708</b>	<b>45.5</b>	720	44.7	707	45.6	4	<b>708</b>	<b>45.5</b>	720	44.7	707	45.6
429.mcf	4	916	39.8	<b>919</b>	<b>39.7</b>	919	39.7	4	892	40.9	889	41.0	<b>891</b>	<b>40.9</b>
445.gobmk	4	<b>709</b>	<b>59.2</b>	700	59.9	717	58.5	4	646	65.0	648	64.8	<b>647</b>	<b>64.8</b>
456.hammer	4	781	47.8	781	47.8	<b>781</b>	<b>47.8</b>	4	627	59.5	625	59.7	<b>627</b>	<b>59.5</b>
458.sjeng	4	<b>880</b>	<b>55.0</b>	879	55.1	880	55.0	4	<b>783</b>	<b>61.8</b>	783	61.8	783	61.8
462.libquantum	4	2622	31.6	<b>2622</b>	<b>31.6</b>	2623	31.6	4	<b>2313</b>	<b>35.8</b>	2314	35.8	2312	35.8
464.h264ref	4	937	94.5	<b>939</b>	<b>94.2</b>	941	94.1	4	893	99.1	<b>892</b>	<b>99.3</b>	891	99.3
471.omnetpp	4	<b>716</b>	<b>34.9</b>	717	34.9	715	35.0	4	677	36.9	677	37.0	<b>677</b>	<b>37.0</b>
473.astar	4	780	36.0	778	36.1	<b>779</b>	<b>36.1</b>	4	<b>730</b>	<b>38.5</b>	724	38.8	730	38.5
483.xalancbmk	4	461	59.9	465	59.4	<b>464</b>	<b>59.5</b>	4	461	59.9	465	59.4	<b>464</b>	<b>59.5</b>

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

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Page 2



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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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