



# SPEC® CINT2006 Result

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Acer Incorporated

SPECint®\_rate2006 = 32.1

Acer Altos G540 (Intel Xeon 5150)

SPECint\_rate\_base2006 = 28.6

CPU2006 license: 97

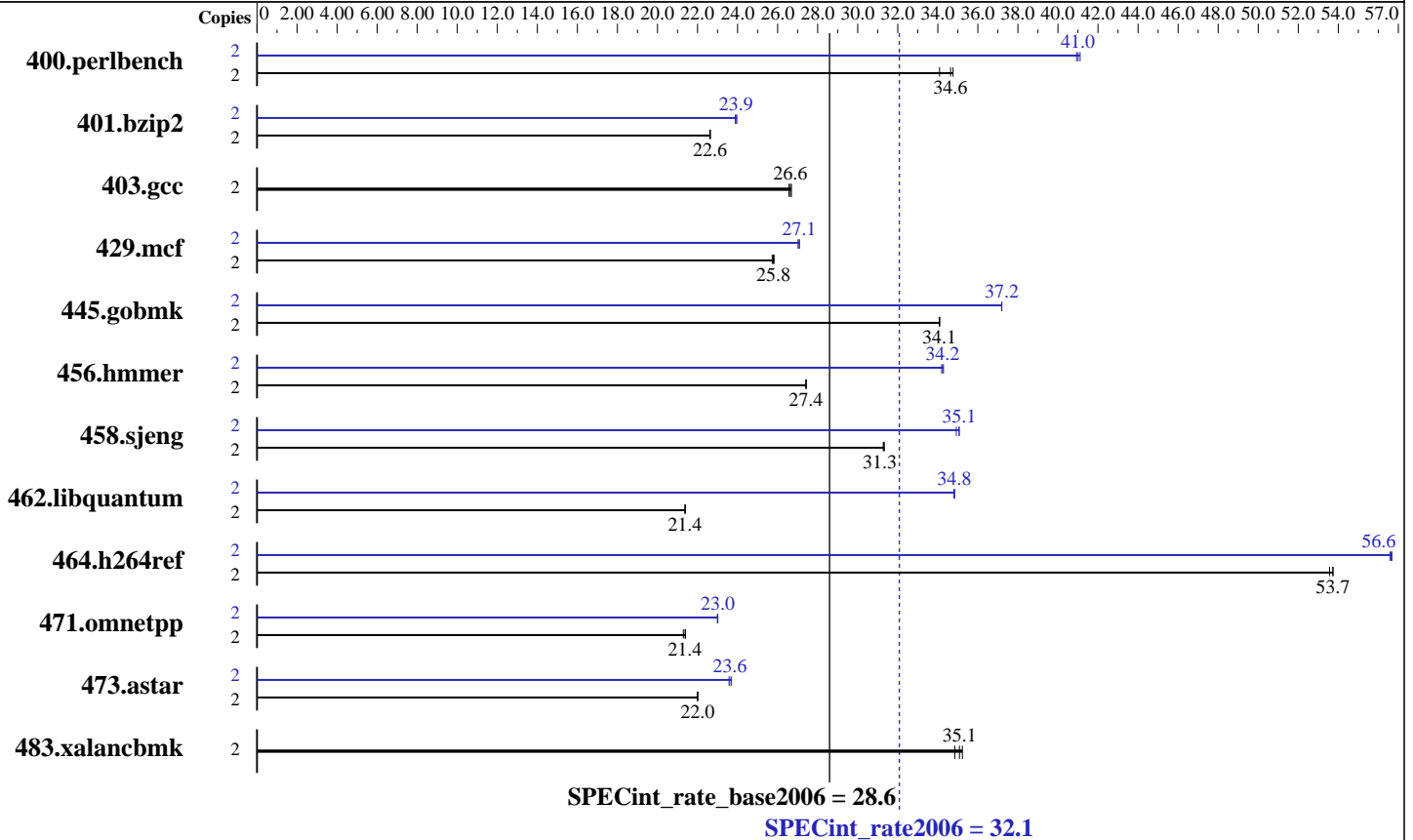
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



### Hardware

CPU Name: Intel Xeon 5150  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2660  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1, 2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 4 MB I+D on chip per chip  
 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



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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	2	573	34.1	<b><u>564</u></b>	<b><u>34.6</u></b>	562	34.8	2	477	40.9	475	41.1	<b><u>477</u></b>	<b><u>41.0</u></b>
401.bzip2	2	854	22.6	<b><u>853</u></b>	<b><u>22.6</u></b>	852	22.6	2	<b><u>807</u></b>	<b><u>23.9</u></b>	808	23.9	805	24.0
403.gcc	2	606	26.6	603	26.7	<b><u>604</u></b>	<b><u>26.6</u></b>	2	606	26.6	603	26.7	<b><u>604</u></b>	<b><u>26.6</u></b>
429.mcf	2	709	25.7	<b><u>707</u></b>	<b><u>25.8</u></b>	706	25.8	2	673	27.1	<b><u>674</u></b>	<b><u>27.1</u></b>	675	27.0
445.gobmk	2	615	34.1	616	34.1	<b><u>616</u></b>	<b><u>34.1</u></b>	2	<b><u>564</u></b>	<b><u>37.2</u></b>	564	37.2	564	37.2
456.hammer	2	680	27.4	681	27.4	<b><u>681</u></b>	<b><u>27.4</u></b>	2	544	34.3	546	34.2	<b><u>545</u></b>	<b><u>34.2</u></b>
458.sjeng	2	773	31.3	774	31.3	<b><u>773</u></b>	<b><u>31.3</u></b>	2	<b><u>690</u></b>	<b><u>35.1</u></b>	690	35.1	693	34.9
462.libquantum	2	<b><u>1938</u></b>	<b><u>21.4</u></b>	1938	21.4	1939	21.4	2	<b><u>1190</u></b>	<b><u>34.8</u></b>	1191	34.8	1190	34.8
464.h264ref	2	824	53.7	<b><u>824</u></b>	<b><u>53.7</u></b>	826	53.6	2	782	56.6	781	56.7	<b><u>782</u></b>	<b><u>56.6</u></b>
471.omnetpp	2	587	21.3	584	21.4	<b><u>585</u></b>	<b><u>21.4</u></b>	2	544	23.0	543	23.0	<b><u>543</u></b>	<b><u>23.0</u></b>
473.astar	2	638	22.0	<b><u>638</u></b>	<b><u>22.0</u></b>	638	22.0	2	596	23.6	<b><u>595</u></b>	<b><u>23.6</u></b>	592	23.7
483.xalancbmk	2	392	35.2	<b><u>393</u></b>	<b><u>35.1</u></b>	396	34.8	2	392	35.2	<b><u>393</u></b>	<b><u>35.1</u></b>	396	34.8

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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