



SPEC® CINT2006 Result

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Acer Incorporated

SPECint®_rate2006 = 47.0

Acer Altos G540 (Intel Xeon E5335)

SPECint_rate_base2006 = 43.4

CPU2006 license: 97

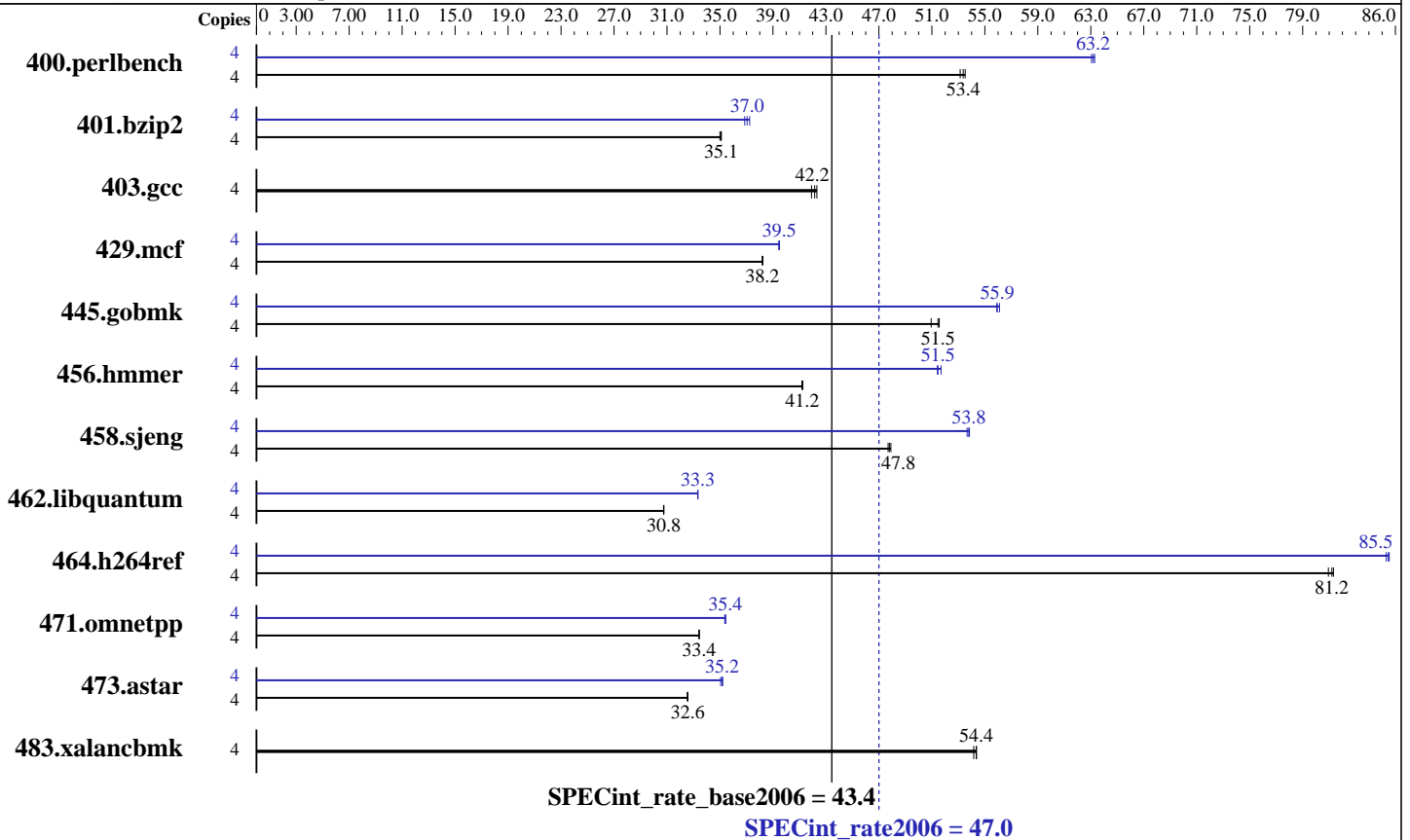
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon E5335
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2000
 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-mp)
 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	4	<u>732</u>	<u>53.4</u>	735	53.1	730	53.5	4	620	63.0	617	63.3	<u>619</u>	<u>63.2</u>
401.bzip2	4	1103	35.0	<u>1100</u>	<u>35.1</u>	1100	35.1	4	1037	37.2	1047	36.9	<u>1042</u>	<u>37.0</u>
403.gcc	4	<u>764</u>	<u>42.2</u>	761	42.3	768	41.9	4	<u>764</u>	<u>42.2</u>	761	42.3	768	41.9
429.mcf	4	<u>955</u>	<u>38.2</u>	954	38.2	955	38.2	4	925	39.4	924	39.5	<u>924</u>	<u>39.5</u>
445.gobmk	4	824	50.9	814	51.6	<u>815</u>	<u>51.5</u>	4	751	55.9	<u>750</u>	<u>55.9</u>	748	56.1
456.hammer	4	906	41.2	905	41.3	<u>905</u>	<u>41.2</u>	4	<u>725</u>	<u>51.5</u>	722	51.7	726	51.4
458.sjeng	4	<u>1013</u>	<u>47.8</u>	1015	47.7	1010	47.9	4	899	53.8	902	53.7	<u>900</u>	<u>53.8</u>
462.libquantum	4	2696	30.7	2695	30.8	<u>2695</u>	<u>30.8</u>	4	<u>2487</u>	<u>33.3</u>	2487	33.3	2486	33.3
464.h264ref	4	1088	81.3	1094	80.9	<u>1090</u>	<u>81.2</u>	4	1035	85.5	<u>1036</u>	<u>85.5</u>	1038	85.3
471.omnetpp	4	748	33.4	<u>748</u>	<u>33.4</u>	748	33.4	4	706	35.4	<u>706</u>	<u>35.4</u>	707	35.4
473.astar	4	<u>862</u>	<u>32.6</u>	863	32.5	862	32.6	4	798	35.2	<u>799</u>	<u>35.2</u>	801	35.0
483.xalancbmk	4	<u>508</u>	<u>54.4</u>	508	54.4	510	54.2	4	<u>508</u>	<u>54.4</u>	508	54.4	510	54.2

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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