



SPEC[®] CINT2006 Result

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Acer Incorporated

SPECint[®]_rate2006 = 26.5

Acer Altos G540 (Intel Xeon 5130)

SPECint_rate_base2006 = 23.7

CPU2006 license: 97

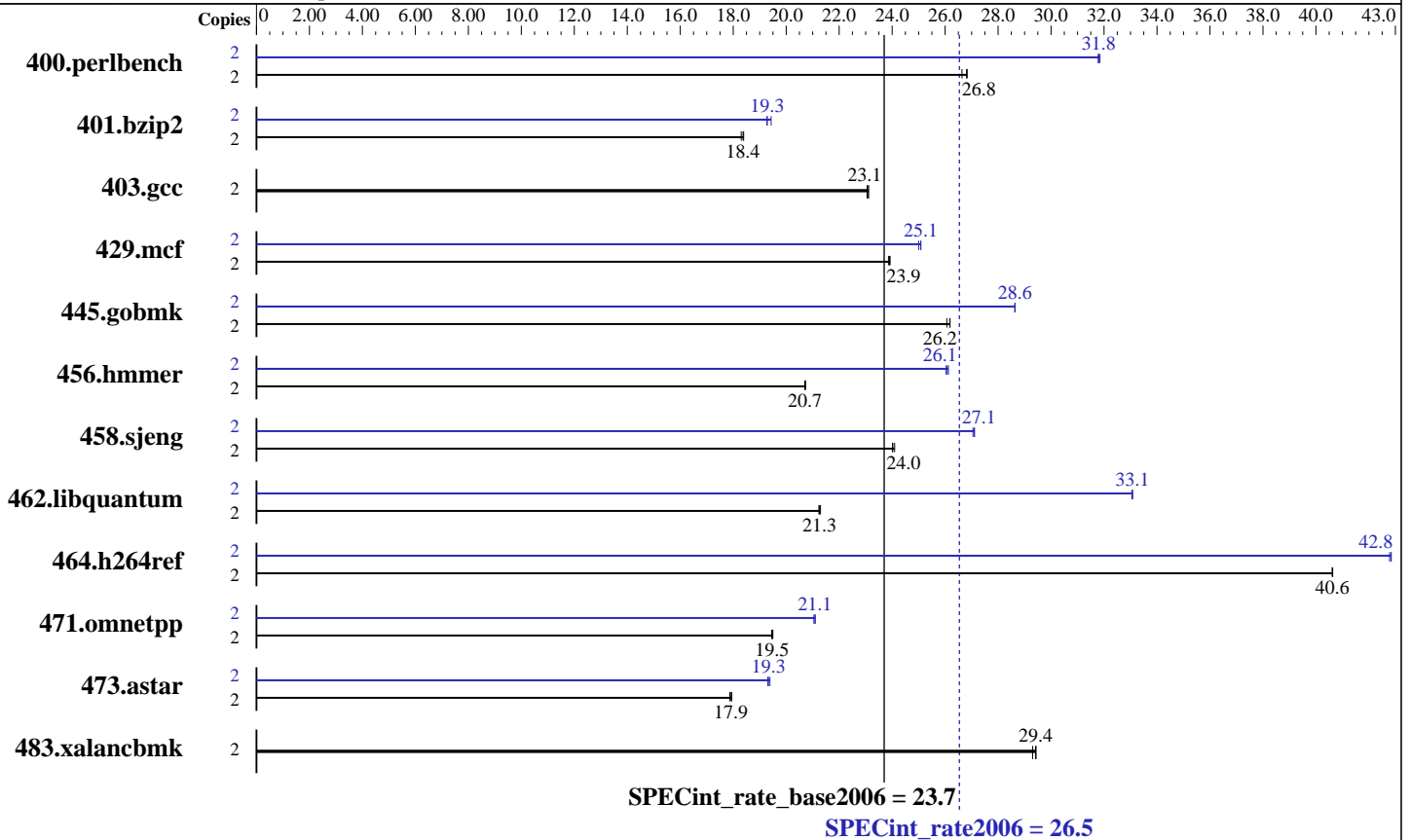
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon 5130
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2000
 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	728	26.8	<u>729</u>	<u>26.8</u>	734	26.6	2	614	31.8	615	31.8	<u>614</u>	<u>31.8</u>
401.bzip2	2	1049	18.4	<u>1051</u>	<u>18.4</u>	1055	18.3	2	993	19.4	<u>1001</u>	<u>19.3</u>	1001	19.3
403.gcc	2	<u>698</u>	<u>23.1</u>	698	23.1	697	23.1	2	<u>698</u>	<u>23.1</u>	698	23.1	697	23.1
429.mcf	2	<u>763</u>	<u>23.9</u>	764	23.9	763	23.9	2	<u>727</u>	<u>25.1</u>	729	25.0	727	25.1
445.gobmk	2	801	26.2	805	26.1	<u>801</u>	<u>26.2</u>	2	733	28.6	<u>733</u>	<u>28.6</u>	733	28.6
456.hammer	2	901	20.7	<u>901</u>	<u>20.7</u>	900	20.7	2	717	26.0	<u>715</u>	<u>26.1</u>	714	26.1
458.sjeng	2	1004	24.1	1008	24.0	<u>1007</u>	<u>24.0</u>	2	<u>893</u>	<u>27.1</u>	893	27.1	895	27.1
462.libquantum	2	1946	21.3	<u>1949</u>	<u>21.3</u>	1952	21.2	2	1253	33.1	<u>1253</u>	<u>33.1</u>	1254	33.0
464.h264ref	2	1089	40.6	1090	40.6	<u>1089</u>	<u>40.6</u>	2	1033	42.8	<u>1033</u>	<u>42.8</u>	1035	42.8
471.omnetpp	2	643	19.5	641	19.5	<u>642</u>	<u>19.5</u>	2	593	21.1	<u>593</u>	<u>21.1</u>	594	21.0
473.astar	2	786	17.9	782	17.9	<u>783</u>	<u>17.9</u>	2	<u>726</u>	<u>19.3</u>	724	19.4	727	19.3
483.xalancbmk	2	<u>469</u>	<u>29.4</u>	469	29.4	471	29.3	2	<u>469</u>	<u>29.4</u>	469	29.4	471	29.3

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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