



SPEC® CINT2006 Result

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Acer Incorporated

SPECint®_rate2006 = 60.0

Acer Altos R520 (Intel Xeon 5160)

SPECint_rate_base2006 = 56.1

CPU2006 license: 97

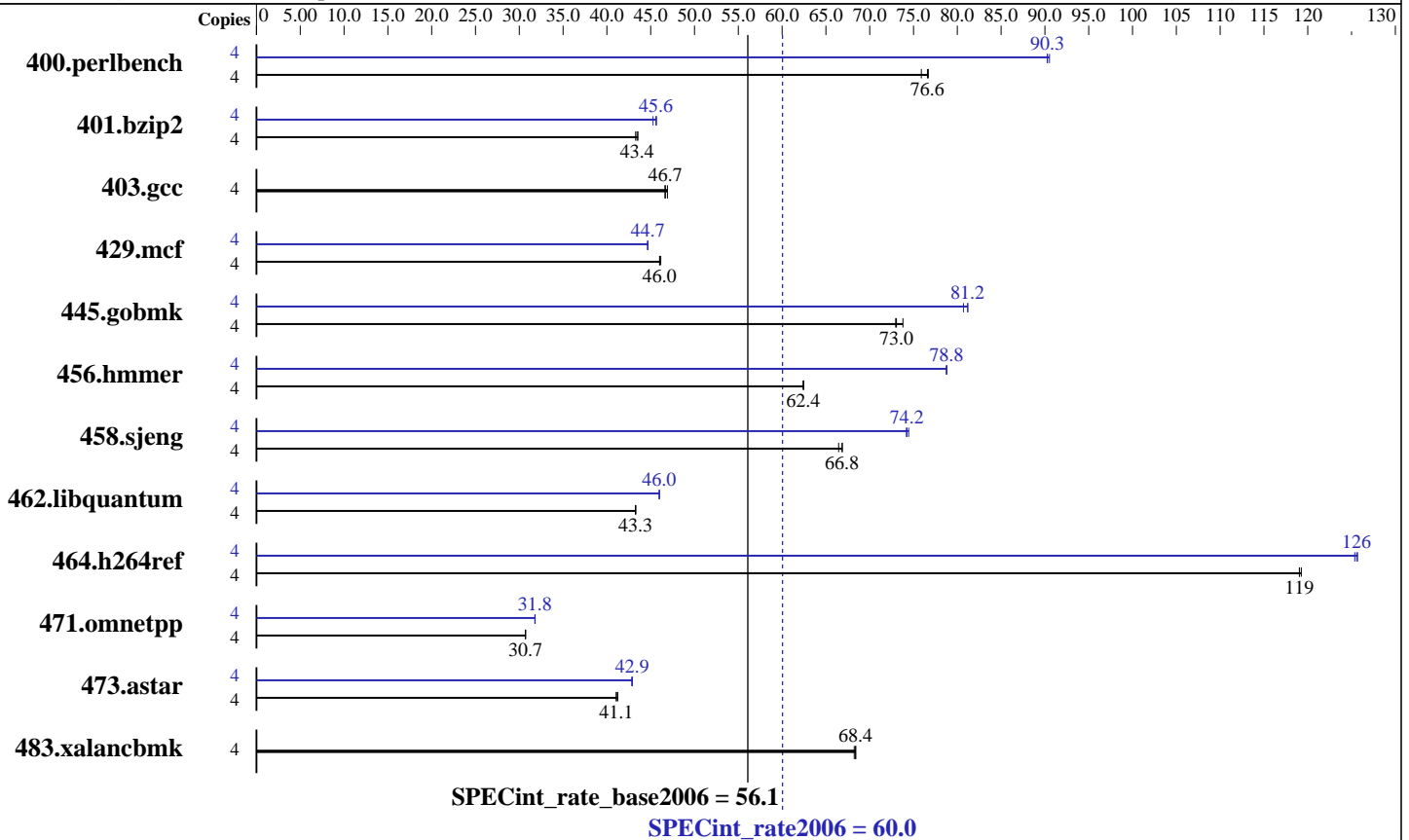
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Aug-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon 5160
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 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 73GB 10000RPM SAS HDD
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 10 EM64T kernel
 Compiler: Intel C++ Compiler for Linux32 and Linux64 version 10.0
 Build 20070426 Package ID: l_cc_p_10.0.023
 Auto Parallel: No
 File System: ReiserFS
 System State: Multi-user, 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	510	76.7	510	76.6	515	75.9	4	433	90.3	433	90.3	432	90.5
401.bzip2	4	886	43.5	892	43.3	889	43.4	4	853	45.3	847	45.6	845	45.7
403.gcc	4	691	46.6	686	46.9	690	46.7	4	691	46.6	686	46.9	690	46.7
429.mcf	4	793	46.0	790	46.2	793	46.0	4	817	44.6	816	44.7	816	44.7
445.gobmk	4	575	73.0	569	73.8	574	73.0	4	520	80.7	517	81.2	517	81.2
456.hammer	4	598	62.4	598	62.4	598	62.4	4	474	78.8	474	78.7	473	78.8
458.sjeng	4	728	66.5	724	66.8	724	66.9	4	650	74.5	652	74.2	652	74.2
462.libquantum	4	1915	43.3	1915	43.3	1916	43.3	4	1803	46.0	1802	46.0	1802	46.0
464.h264ref	4	744	119	744	119	742	119	4	704	126	705	126	706	125
471.omnetpp	4	814	30.7	814	30.7	814	30.7	4	786	31.8	786	31.8	787	31.8
473.astar	4	684	41.1	683	41.1	681	41.2	4	654	42.9	655	42.9	656	42.8
483.xalancbmk	4	404	68.2	403	68.4	404	68.4	4	404	68.2	403	68.4	404	68.4

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

This result was measured on the Acer Altos R520
The Altos R720 and Altos R520 are electronically equivalent.

BIOS Settings

Snoop Filter set to OFF

Snoop Filter preserves cache coherency while minimizing snoops to remote nodes.

Adjacent Cache Line Prefetch set to OFF

Prefetch data in order to shorten execution cycles and maximize data processing efficiency.

Optimization for high-frequency FSB applications set to ON

taskset was used to bind copies to cores

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc



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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

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

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Peak Portability Flags (Continued)

483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias
-prefetch

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



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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.

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