



SPEC® CINT2006 Result

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Acer Incorporated

SPECint®_rate2006 = 36.5

Acer Altos R720 (Intel Xeon E5310)

SPECint_rate_base2006 = 33.6

CPU2006 license: 97

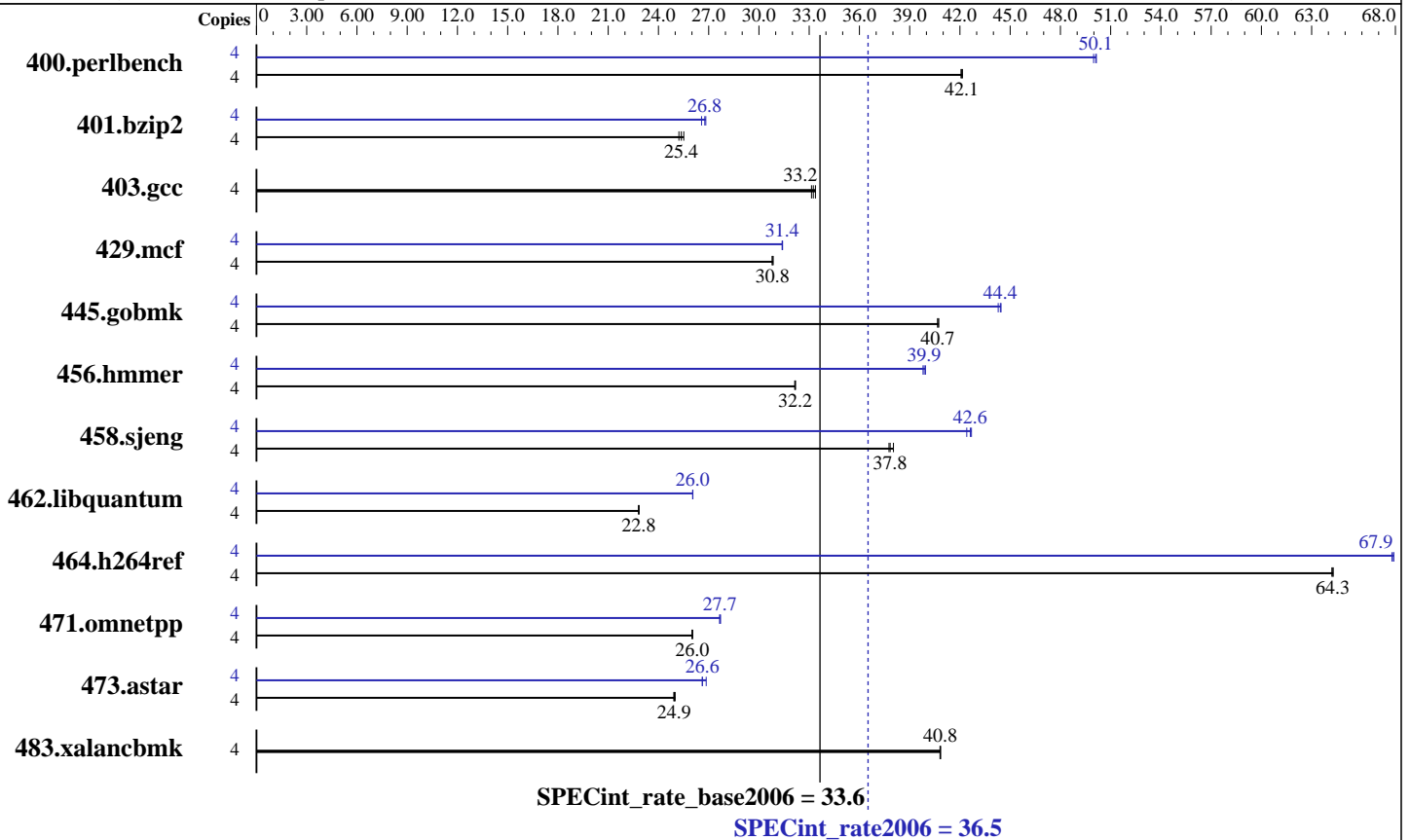
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Aug-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon E5310
 CPU Characteristics: 1066MHz system bus
 CPU MHz: 1600
 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 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	929	42.1	927	42.2	928	42.1	4	782	50.0	780	50.1	779	50.1
401.bzip2	4	1513	25.5	1522	25.4	1530	25.2	4	1453	26.6	1442	26.8	1439	26.8
403.gcc	4	965	33.4	968	33.2	972	33.1	4	965	33.4	968	33.2	972	33.1
429.mcf	4	1182	30.9	1185	30.8	1184	30.8	4	1162	31.4	1162	31.4	1161	31.4
445.gobmk	4	1032	40.7	1030	40.7	1032	40.7	4	947	44.3	945	44.4	944	44.5
456.hammer	4	1160	32.2	1160	32.2	1161	32.1	4	936	39.9	938	39.8	934	39.9
458.sjeng	4	1279	37.8	1282	37.8	1273	38.0	4	1136	42.6	1134	42.7	1141	42.4
462.libquantum	4	3632	22.8	3628	22.8	3633	22.8	4	3182	26.0	3182	26.0	3181	26.1
464.h264ref	4	1377	64.3	1379	64.2	1377	64.3	4	1306	67.8	1304	67.9	1304	67.9
471.omnetpp	4	961	26.0	960	26.0	961	26.0	4	904	27.7	904	27.7	902	27.7
473.astar	4	1126	24.9	1127	24.9	1123	25.0	4	1046	26.9	1055	26.6	1055	26.6
483.xalancbmk	4	676	40.8	676	40.8	676	40.8	4	676	40.8	676	40.8	676	40.8

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

All results used taskset to bind processes 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.20090714.23.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.20090714.23.xml>

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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