



SPEC[®] CINT2006 Result

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Acer Incorporated

SPECint[®]_rate2006 = 60.6

Acer Altos R720 (Intel Xeon X5365)

SPECint_rate_base2006 = 52.9

CPU2006 license: 97

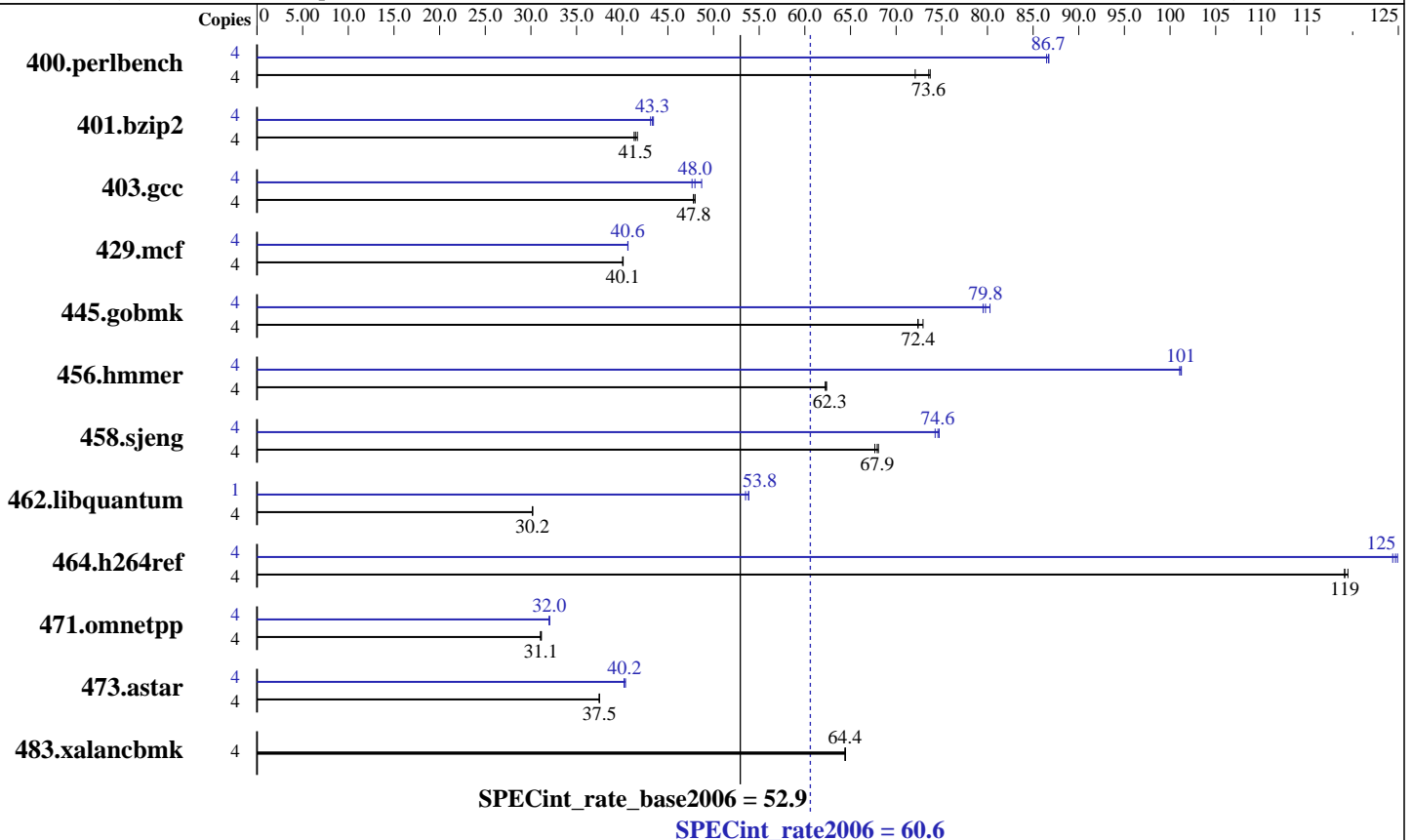
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Dec-2007

Hardware Availability: Nov-2007

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon X5365
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 3000
 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 10000PRM SAS HDD
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 10 SP1 EM64T (kernel 2.6.16.46-0.12-smp)
 Compiler: Intel C++ Compiler 10.1 for Linux Build 20070913 Package ID: l_cc_p_10.1.008
 Auto Parallel: Yes
 File System: ReiserFS
 System State: Multi-user, level 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Microquill SmartHeap V8.1 Binutils 2.17.50.0.15



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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	542	72.1	530	73.7	<u>531</u>	<u>73.6</u>	4	452	86.5	<u>451</u>	<u>86.7</u>	451	86.7
401.bzip2	4	926	41.7	935	41.3	<u>931</u>	<u>41.5</u>	4	<u>891</u>	<u>43.3</u>	896	43.1	889	43.4
403.gcc	4	674	47.8	<u>673</u>	<u>47.8</u>	671	48.0	4	676	47.6	<u>671</u>	<u>48.0</u>	661	48.7
429.mcf	4	911	40.1	910	40.1	<u>910</u>	<u>40.1</u>	4	<u>898</u>	<u>40.6</u>	898	40.6	898	40.6
445.gobmk	4	580	72.4	<u>579</u>	<u>72.4</u>	575	72.9	4	523	80.3	528	79.5	<u>526</u>	<u>79.8</u>
456.hmmer	4	600	62.2	598	62.4	<u>599</u>	<u>62.3</u>	4	<u>369</u>	<u>101</u>	369	101	369	101
458.sjeng	4	<u>713</u>	<u>67.9</u>	715	67.7	711	68.1	4	652	74.3	<u>649</u>	<u>74.6</u>	648	74.7
462.libquantum	4	2746	30.2	<u>2746</u>	<u>30.2</u>	2748	30.2	1	387	53.5	385	53.9	<u>385</u>	<u>53.8</u>
464.h264ref	4	741	119	743	119	<u>743</u>	<u>119</u>	4	712	124	709	125	<u>710</u>	<u>125</u>
471.omnetpp	4	<u>804</u>	<u>31.1</u>	803	31.1	805	31.0	4	780	32.1	781	32.0	<u>781</u>	<u>32.0</u>
473.astar	4	749	37.5	<u>749</u>	<u>37.5</u>	749	37.5	4	696	40.4	<u>698</u>	<u>40.2</u>	698	40.2
483.xalancbmk	4	428	64.5	429	64.4	<u>428</u>	<u>64.4</u>	4	428	64.5	429	64.4	<u>428</u>	<u>64.4</u>

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.

All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmer, for peak, are compiled in 64-bit mode

BIOS Setting

Hardware Prefetcher set to ON

Adjacent Cache Line Prefetch set to OFF

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 -inline-calloc -opt-malloc-options=3

C++ benchmarks:

-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/spec/users/rahul/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/10.1.008/bin/icc
-L/opt/intel/cce/10.1.008/lib
-I/opt/intel/cce/10.1.008/include

456.hmmer: /opt/intel/cce/10.1.008/bin/icc
-L/opt/intel/cce/10.1.008/lib
-I/opt/intel/cce/10.1.008/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.xalanbmk: -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 -prefetch

403.gcc: -fast -inline-calloc -opt-malloc-options=3

429.mcf: -fast -prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo
-no-prec-div -ansi-alias

456.hmmer: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -fast -unroll4 -Ob0 -prefetch
-opt-streaming-stores always -vec-guard-write
-opt-malloc-options=3 -parallel -par-runtime-control

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=block
-Wl,-z,muldefs
-L/spec/users/rahul/cpu2006.1.0/lib -lsmartheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine
-Wl,-z,muldefs
-L/spec/users/rahul/cpu2006.1.0/lib -lsmartheap

483.xalanbmk: basepeak = yes



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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.20090714.38.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.20090714.38.xml>

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For other inquiries, please contact webmaster@spec.org.

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