SPEC® CINT2006 Result

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Acer Incorporated

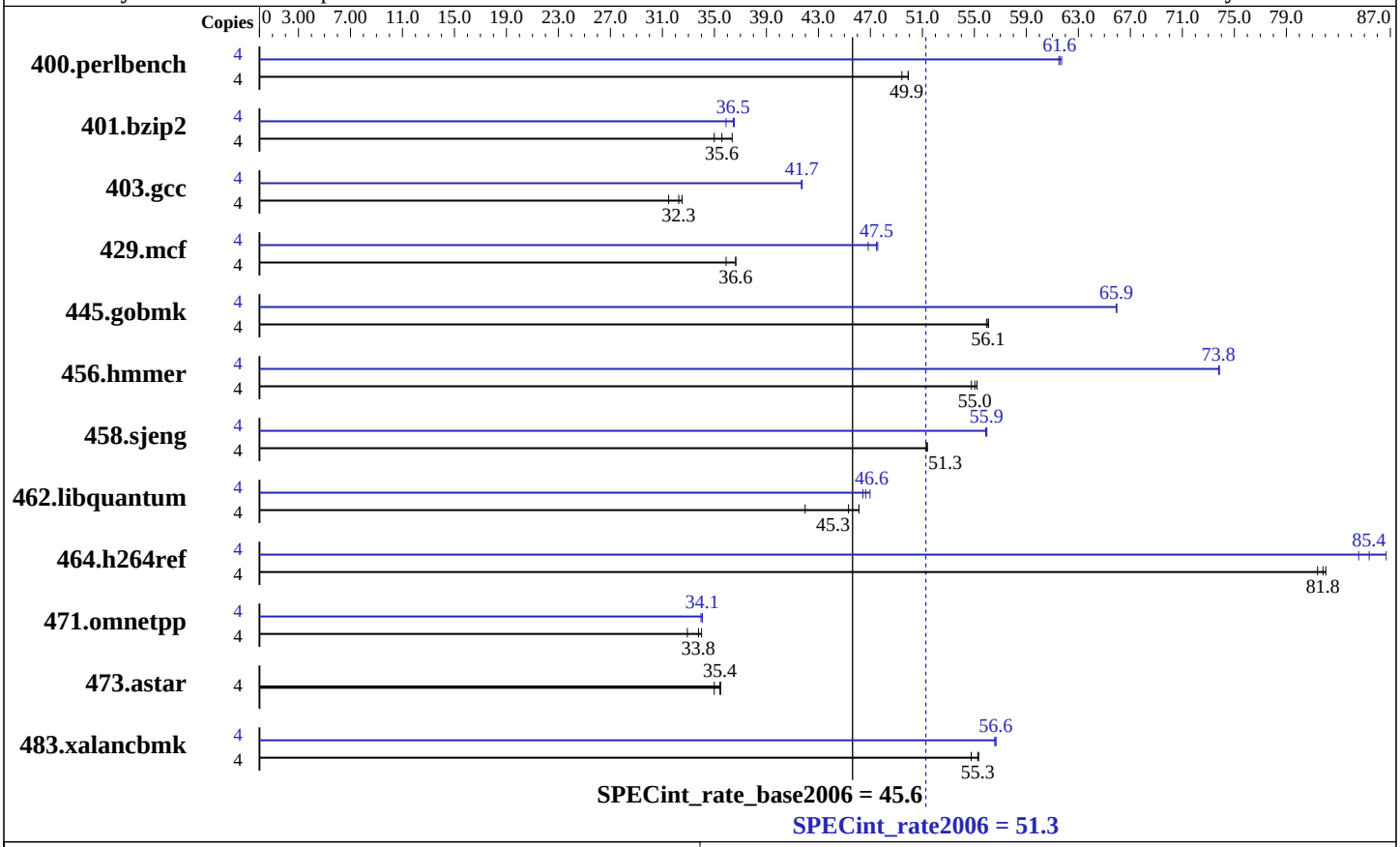
Acer Altos R5250 (AMD Opteron 2220 SE)

SPECint®_rate2006 = 51.3

SPECint_rate_base2006 = 45.6

CPU2006 license: 97
Test sponsor: Acer Incorporated
Tested by: Acer Incorporated

Test date: Jul-2007
Hardware Availability: Dec-2007
Software Availability: Jun-2007



Hardware

CPU Name:	AMD Opteron 2220 SE
CPU Characteristics:	
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (16x1GB, DDR2-667 CL5 ECC Reg)
Disk Subsystem:	1 x SATA, 160 GB
Other Hardware:	None

Software

Operating System:	SuSE Linux Enterprise Server 10 EM64T kernel
Compiler:	QLogic PathScale Compiler Suite, Release 3.0
Auto Parallel:	No
File System:	ReiserFS
System State:	Default
Base Pointers:	32/64-bit
Peak Pointers:	32/64-bit
Other Software:	SmartHeap 8.0 32 bit Library for Linux

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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	791	49.4	**783**	**49.9**	783	49.9	4	635	61.5	**635**	**61.6**	633	61.7
401.bzip2	4	1103	35.0	**1085**	**35.6**	1061	36.4	4	1075	35.9	1057	36.5	**1059**	**36.5**
403.gcc	4	1023	31.5	**998**	**32.3**	990	32.5	4	**772**	**41.7**	771	41.8	772	41.7
429.mcf	4	1016	35.9	995	36.6	**996**	**36.6**	4	779	46.8	767	47.6	**768**	**47.5**
445.gobmk	4	750	55.9	748	56.1	**749**	**56.1**	4	637	65.9	**636**	**65.9**	636	66.0
456.hmmer	4	681	54.8	676	55.2	**678**	**55.0**	4	506	73.8	**506**	**73.8**	505	73.9
458.sjeng	4	944	51.3	942	51.4	**943**	**51.3**	4	**865**	**55.9**	865	56.0	866	55.9
462.libquantum	4	1974	42.0	**1829**	**45.3**	1797	46.1	4	1785	46.4	**1777**	**46.6**	1764	47.0
464.h264ref	4	1087	81.4	1079	82.0	**1082**	**81.8**	4	1021	86.7	**1037**	**85.4**	1047	84.6
471.omnetpp	4	759	32.9	**740**	**33.8**	735	34.0	4	736	34.0	734	34.1	**734**	**34.1**
473.astar	4	803	35.0	**793**	**35.4**	792	35.5	4	803	35.0	**793**	**35.4**	792	35.5
483.xalancbmk	4	504	54.8	**499**	**55.3**	499	55.3	4	488	56.6	487	56.7	**487**	**56.6**

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

General Notes

```
taskset utility used to bind cores to processes

This result was measured on the Acer Altos G5450
The Altos G5450 and Altos R5250 are electronically equivalent.
```

Base Compiler Invocation

C benchmarks:
pathcc

C++ benchmarks:
pathCC

Base Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX

Continued on next page

Base Portability Flags (Continued)

464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-Ofast -OPT:malloc_alg=1

C++ benchmarks:
-Ofast -m32 -L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

Peak Compiler Invocation

C benchmarks:
pathcc

C++ benchmarks:
pathCC

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast
-LNO:opt=0

401.bzip2: -O3 -LNO:ou_prod_max=10 -OPT:Ofast -OPT:alias=disjoint

403.gcc: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -O3
-OPT:Ofast

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Peak Optimization Flags (Continued)

429.mcf: `-m32 -O3 -ipa -L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap`

445.gobmk: `-fb_create fbdata`(pass 1) `-fb_opt fbdata`(pass 2) `-O3 -OPT:alias=disjoint -LNO:simd=0 -LNO:minvariant=off -WOPT:retype_expr=on`

456.hmmer: `-O2 -OPT:alias=disjoint -OPT:malloc_alg=1 -CG:cflow=0`

458.sjeng: `-fb_create fbdata`(pass 1) `-fb_opt fbdata`(pass 2) `-O3 -IPA:plimit=50000 -IPA:pu_reorder=2`

462.libquantum: `-O3 -ipa -CG:local_fwd_sched=on -IPA:space=1000`

464.h264ref: `-fb_create fbdata`(pass 1) `-fb_opt fbdata`(pass 2) `-O3 -IPA:plimit=20000 -OPT:alias=disjoint -LNO:prefetch=0`

C++ benchmarks:

471.omnetpp: `-Ofast -CG:gcm=off -m32 -L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap`

473.astar: `basepeak = yes`

483.xalancbmk: `-Ofast -m32 -OPT:unroll_times_max=8 -L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.xml`

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