



SPEC® CINT2006 Result

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Acer Incorporated

SPECint_rate2006 = 67.8

Acer Altos R920 (Intel Xeon E7310)

SPECint_rate_base2006 = 61.6

CPU2006 license: 97

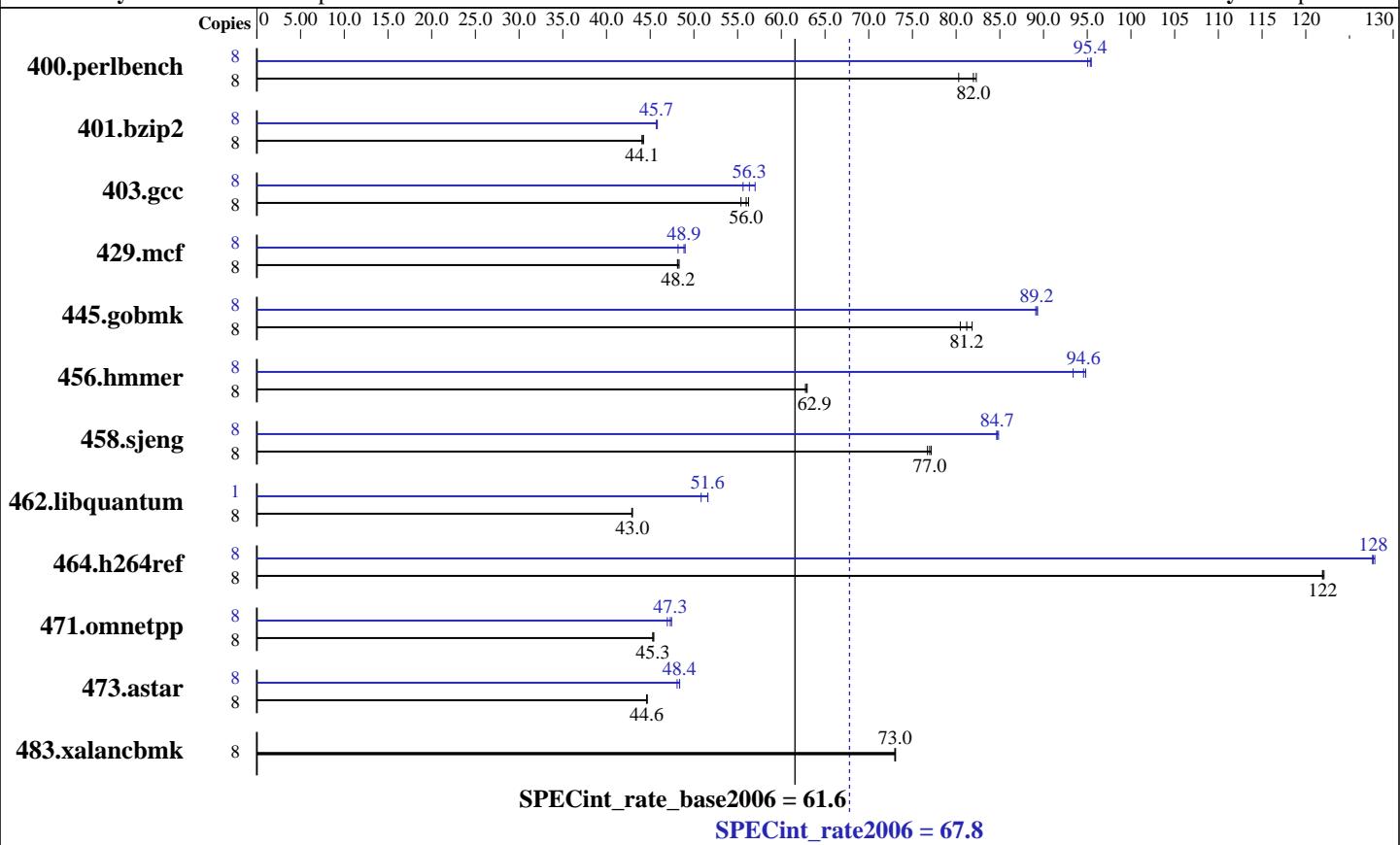
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Oct-2007

Hardware Availability: Nov-2007

Software Availability: Sep-2007



Hardware

CPU Name: Intel Xeon E7310
CPU Characteristics: 1066MHz system bus
CPU MHz: 1600
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
CPU(s) orderable: 1, 2, 3, 4 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 4 MB I+D on chip per chip, 2 MB shared / 2 cores
L3 Cache: None
Other Cache: None
Memory: 16 GB (16 x 1048MB 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 (x86_64)
Compiler: Kernel 2.6.16.46-0.12-smp
Auto Parallel: Intel C++ Compiler for Linux32 and Linux64 version 10.1 Build 20070725
File System: Yes
System State: ReiserFS
Base Pointers: Multi-user, level 3
Peak Pointers: 32-bit
Other Software: 32/64-bit
MicroQuill SmartHeap Library 8.1
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	8	973	80.3	953	82.0	950	82.3	8	822	95.1	820	95.4	819	95.5
401.bzip2	8	1752	44.1	1751	44.1	1745	44.2	8	1689	45.7	1688	45.7	1685	45.8
403.gcc	8	1150	56.0	1145	56.3	1163	55.4	8	1130	57.0	1158	55.6	1143	56.3
429.mcf	8	1510	48.3	1516	48.1	1514	48.2	8	1514	48.2	1489	49.0	1493	48.9
445.gobmk	8	1026	81.8	1043	80.5	1033	81.2	8	942	89.1	941	89.2	940	89.3
456.hmmer	8	1187	62.9	1186	63.0	1189	62.8	8	799	93.4	789	94.6	787	94.8
458.sjeng	8	1262	76.7	1255	77.1	1258	77.0	8	1143	84.7	1144	84.6	1141	84.9
462.libquantum	8	3859	43.0	3859	43.0	3865	42.9	1	408	50.8	402	51.6	402	51.6
464.h264ref	8	1450	122	1452	122	1452	122	8	1384	128	1387	128	1386	128
471.omnetpp	8	1101	45.4	1104	45.3	1103	45.3	8	1065	47.0	1057	47.3	1054	47.4
473.astar	8	1259	44.6	1259	44.6	1257	44.7	8	1168	48.1	1161	48.4	1161	48.4
483.xalancbmk	8	756	73.0	756	73.0	755	73.1	8	756	73.0	756	73.0	755	73.1

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

General Notes

BIOS Settings

Hardware Prefetcher set to OFF

Adjacent Cache Line Prefetch set to OFF

All results but peak 462.libquantum used taskset to bind processes to cores.

"ulimit -s unlimited" was set for stacksize unlimited
OMP_NUM_THREADS set to number of 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



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Base Optimization Flags

C benchmarks:

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

C++ benchmarks:

```
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs  
-L/home/cmpllr/usr3/alrahate/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: /home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc  
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib  
-I/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include
```

```
456.hmmer: /home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc  
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib  
-I/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/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:

Continued on next page



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Peak Optimization Flags (Continued)

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 -unroll12 -ansi-alias -opt-multi-version-aggressive

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

462.libquantum: -fast -unroll14 -O0 -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 -unroll12
-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/home/cmpllr/usr3/alrahate/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/home/cmpllr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap

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-ic10.1-INT-ia32-linux-flags.20090713.00.html>



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You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-INT-ia32-linux-flags.20090713.00.xml>

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

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