SPEC® CINT2006 Result

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Acer Incorporated

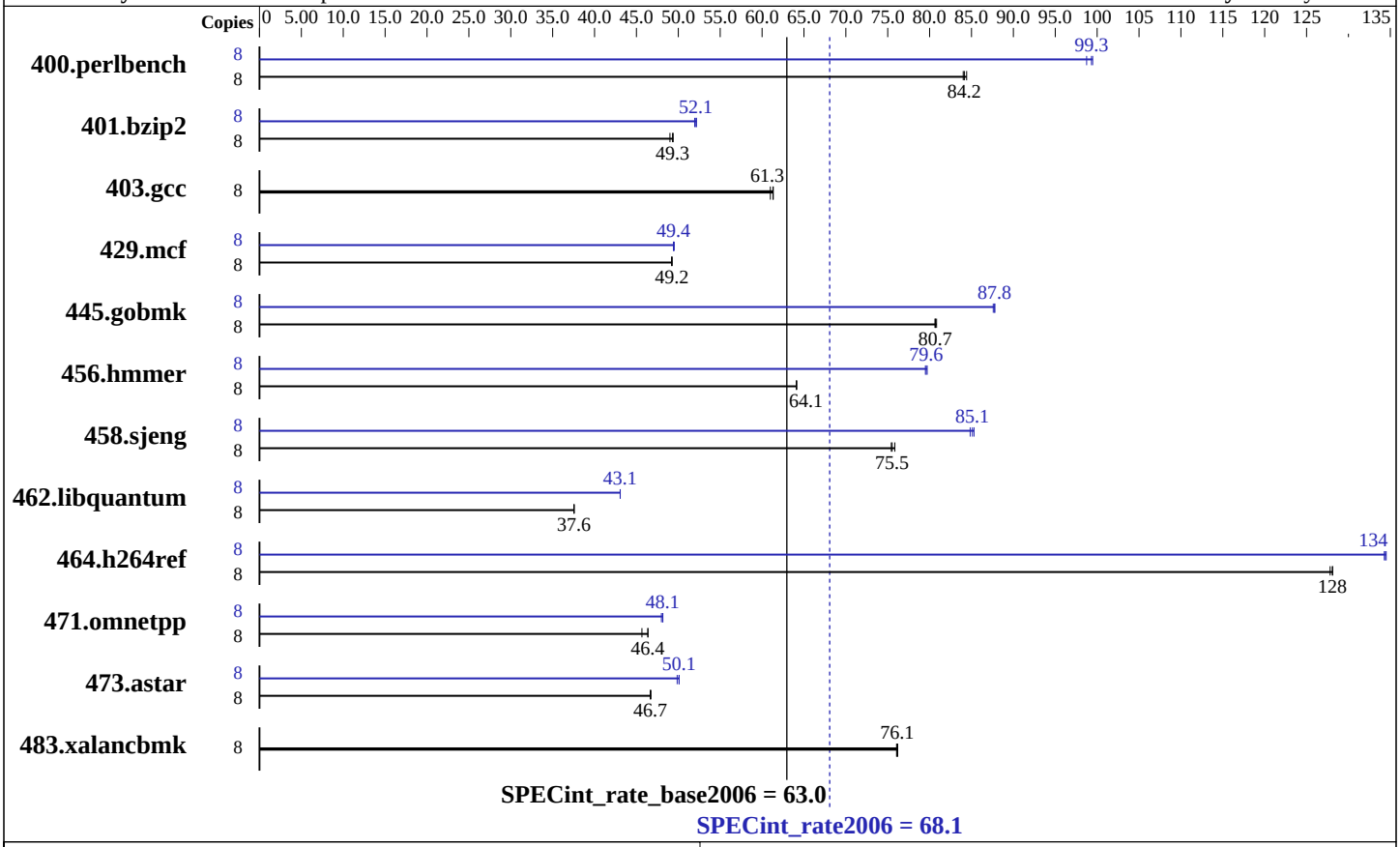
Acer Altos G540 (Intel Xeon E5310)

SPECint®_rate2006 = 68.1

SPECint_rate_base2006 = 63.0

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

Test date: Jul-2007
Hardware Availability: Nov-2006
Software Availability: May-2007



Hardware

CPU Name:	Intel Xeon E5310
CPU Characteristics:	1066MHz system bus
CPU MHz:	1666
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1,2 chip
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 73 GB SAS, 10000RPM
Other Hardware:	None

Software

Operating System:	SUSE Linux Enterprise Server 10 EM64T (kernel 2.6.16.21-0.8-smp)
Compiler:	Intel C++ Compiler for Linux32 version 10.0 Build 20070426 Package ID: l_cc_p_10.0.023
Auto Parallel:	No
File System:	ReiserFS
System State:	Multi-user, run 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	8	**929**	**84.2**	926	84.4	930	84.0	8	786	99.5	**787**	**99.3**	792	98.7
401.bzip2	8	1575	49.0	**1566**	**49.3**	1563	49.4	8	1480	52.2	**1482**	**52.1**	1486	52.0
403.gcc	8	1050	61.3	**1050**	**61.3**	1056	61.0	8	1050	61.3	**1050**	**61.3**	1056	61.0
429.mcf	8	**1482**	**49.2**	1481	49.3	1483	49.2	8	1473	49.5	**1476**	**49.4**	1476	49.4
445.gobmk	8	1038	80.8	**1040**	**80.7**	1041	80.6	8	956	87.8	**956**	**87.8**	958	87.6
456.hmmer	8	1164	64.1	1164	64.1	**1164**	**64.1**	8	939	79.5	**938**	**79.6**	936	79.7
458.sjeng	8	1283	75.4	**1282**	**75.5**	1276	75.9	8	1135	85.3	**1137**	**85.1**	1141	84.8
462.libquantum	8	4413	37.6	**4414**	**37.6**	4415	37.5	8	**3849**	**43.1**	3849	43.1	3849	43.1
464.h264ref	8	**1382**	**128**	1382	128	1385	128	8	**1317**	**134**	1318	134	1316	135
471.omnetpp	8	**1078**	**46.4**	1078	46.4	1095	45.7	8	1038	48.2	1042	48.0	**1039**	**48.1**
473.astar	8	**1203**	**46.7**	1202	46.7	1204	46.7	8	**1121**	**50.1**	1126	49.9	1121	50.1
483.xalancbmk	8	**725**	**76.1**	724	76.2	726	76.1	8	**725**	**76.1**	724	76.2	726	76.1

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

General Notes

```
taskset was used to bind copies to 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`

Base Optimization Flags

C benchmarks:
`-fast`

Continued on next page

Base Optimization Flags (Continued)

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`
483.xalancbmk: `-DSPEC_CPU_LINUX`

Peak Optimization Flags

C benchmarks:

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

Continued on next page

Peak Optimization Flags (Continued)

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`

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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