SPEC® CINT2006 Result

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Acer Incorporated

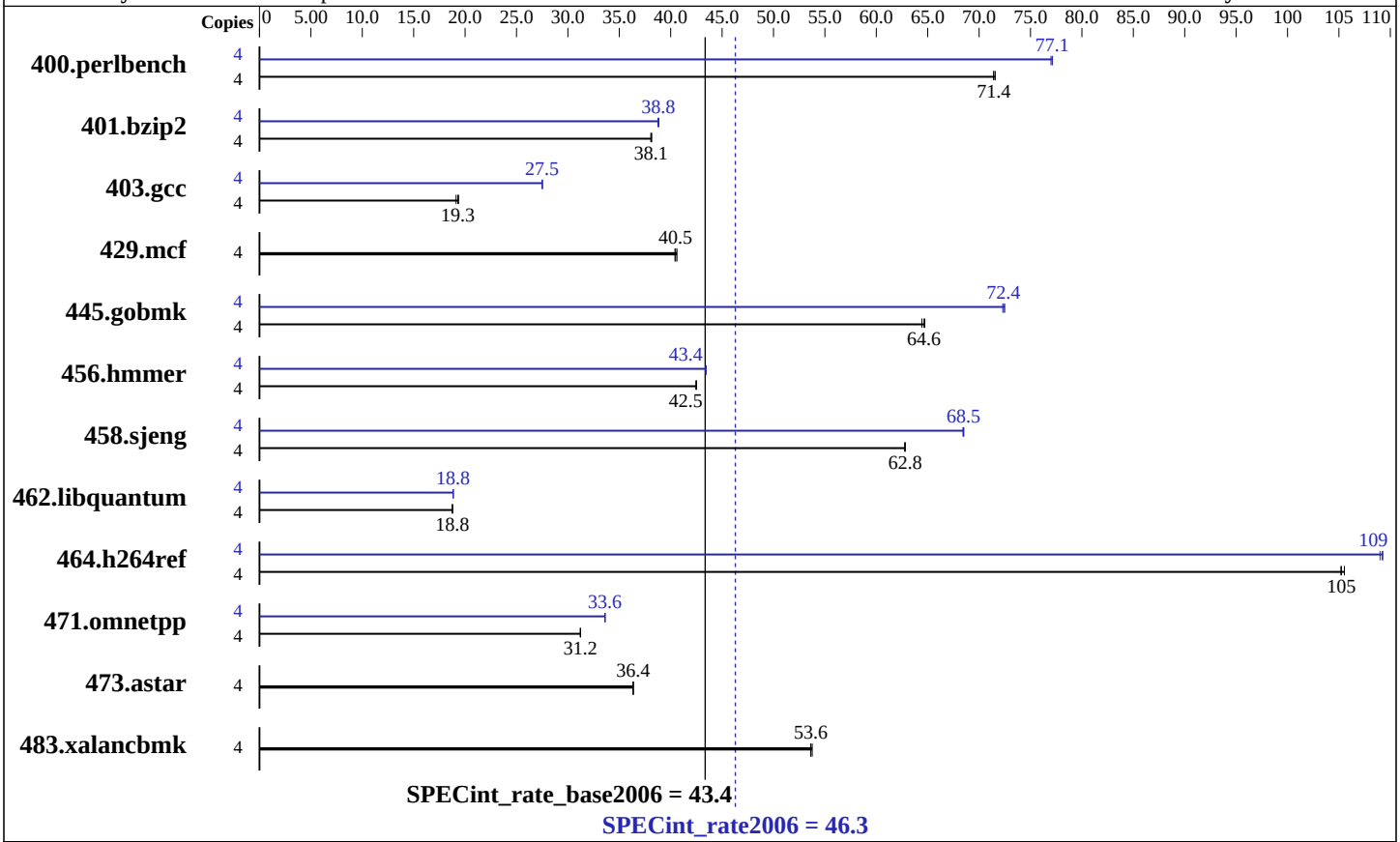
Acer Altos R520 (Intel Xeon X5355, 2.66GHz)

SPECint®_rate2006 = 46.3

SPECint_rate_base2006 = 43.4

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

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



Hardware

CPU Name:	Intel Xeon X5355
CPU Characteristics:	1333MHz system bus
CPU MHz:	2666
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:	Microsoft Windows Server 2003 Enterprise x64 Edition (Build 3790), Service Pack 1
Compiler:	Intel C++ Compiler for IA32 version 9.1 Package ID W_CC_C_9.1.028 Build 20060706Z Microsoft Visual Studio 2003 .Net (libr. & linker)
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	MicroQuill Smart Heap Library, Version 7.4

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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	**547**	**71.4**	547	71.4	546	71.6	4	**507**	**77.1**	508	77.0	507	77.1
401.bzip2	4	1014	38.1	**1014**	**38.1**	1012	38.2	4	996	38.8	994	38.8	**995**	**38.8**
403.gcc	4	1663	19.4	**1669**	**19.3**	1684	19.1	4	1171	27.5	1170	27.5	**1171**	**27.5**
429.mcf	4	898	40.6	903	40.4	**901**	**40.5**	4	898	40.6	903	40.4	**901**	**40.5**
445.gobmk	4	651	64.4	648	64.7	**649**	**64.6**	4	580	72.3	**580**	**72.4**	579	72.5
456.hmmer	4	879	42.5	878	42.5	**878**	**42.5**	4	**859**	**43.4**	859	43.4	859	43.4
458.sjeng	4	771	62.8	771	62.8	**771**	**62.8**	4	707	68.4	706	68.5	**707**	**68.5**
462.libquantum	4	4416	18.8	4416	18.8	**4416**	**18.8**	4	4401	18.8	4396	18.9	**4398**	**18.8**
464.h264ref	4	839	106	842	105	**841**	**105**	4	**811**	**109**	810	109	812	109
471.omnetpp	4	801	31.2	801	31.2	**801**	**31.2**	4	**744**	**33.6**	744	33.6	744	33.6
473.astar	4	772	36.4	772	36.4	**772**	**36.4**	4	772	36.4	772	36.4	**772**	**36.4**
483.xalancbmk	4	**515**	**53.6**	515	53.6	513	53.8	4	**515**	**53.6**	515	53.6	513	53.8

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

General Notes

```
Disable hardware prefetching and disable adjacent cache line prefetch BIOS setting

This result was measured on the Acer Altos R520.
The Altos R720 and Altos R520 are electronically equivalent.
```

Base Compiler Invocation

C benchmarks:

```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:

```
icl -Qvc7.1
```

Base Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

Base Optimization Flags

C benchmarks:
```
-fast /F512000000 shlw32m.lib            -link /FORCE:MULTIPLE
```

C++ benchmarks:
```
-fast -Qcxx_features /F512000000 shlw32m.lib
            -link /FORCE:MULTIPLE
```

Base Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

Peak Compiler Invocation

C benchmarks:
```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:
```
icl -Qvc7.1
```

Peak Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

Peak Optimization Flags

C benchmarks:

400.perlbench: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

401.bzip2: Same as 400.perlbench

403.gcc: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 -link /FORCE:MULTIPLE`

429.mcf: `basepeak = yes`

445.gobmk: Same as 400.perlbench

Continued on next page

Peak Optimization Flags (Continued)

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

473.astar: basepeak = yes

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/Acer-CPU2006-ic91-flags.20090714.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Acer-CPU2006-ic91-flags.20090714.00.xml

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

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