SPEC® CINT2006 Result

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Acer Incorporated

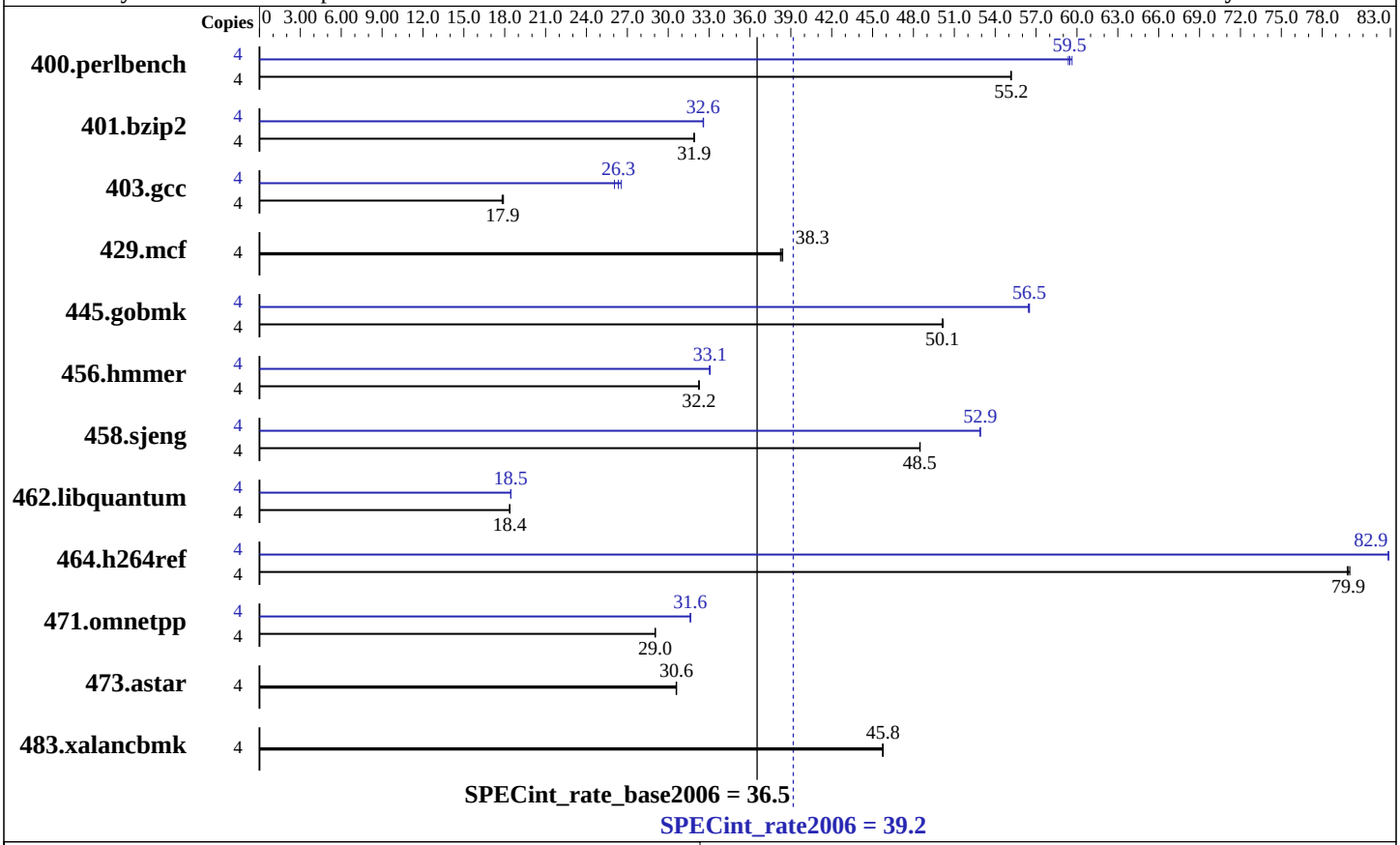
Acer Altos R520 (Intel Xeon E5335, 2.0GHz)

SPECint®_rate2006 = 39.2

SPECint_rate_base2006 = 36.5

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 E5335
CPU Characteristics:	1333MHz system bus
CPU MHz:	2000
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	709	55.1	708	55.2	**708**	**55.2**	4	**657**	**59.5**	658	59.4	655	59.6
401.bzip2	4	**1210**	**31.9**	1209	31.9	1210	31.9	4	**1185**	**32.6**	1184	32.6	1185	32.6
403.gcc	4	1808	17.8	1798	17.9	**1802**	**17.9**	4	1212	26.6	1236	26.1	**1223**	**26.3**
429.mcf	4	950	38.4	954	38.2	**952**	**38.3**	4	950	38.4	954	38.2	**952**	**38.3**
445.gobmk	4	**837**	**50.1**	836	50.2	837	50.1	4	742	56.5	743	56.4	**743**	**56.5**
456.hmmer	4	1156	32.3	**1157**	**32.2**	1157	32.2	4	1130	33.0	**1129**	**33.1**	1128	33.1
458.sjeng	4	999	48.5	**998**	**48.5**	998	48.5	4	915	52.9	915	52.9	**915**	**52.9**
462.libquantum	4	4510	18.4	**4513**	**18.4**	4514	18.4	4	4490	18.5	**4491**	**18.5**	4496	18.4
464.h264ref	4	**1108**	**79.9**	1106	80.0	1109	79.8	4	1068	82.9	1068	82.9	**1068**	**82.9**
471.omnetpp	4	861	29.0	**861**	**29.0**	860	29.1	4	790	31.6	**790**	**31.6**	791	31.6
473.astar	4	917	30.6	**917**	**30.6**	918	30.6	4	917	30.6	**917**	**30.6**	918	30.6
483.xalancbmk	4	603	45.8	**603**	**45.8**	604	45.7	4	603	45.8	**603**	**45.8**	604	45.7

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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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 12:16:25 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 15 May 2007.