SPEC® CINT2006 Result

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Acer Incorporated

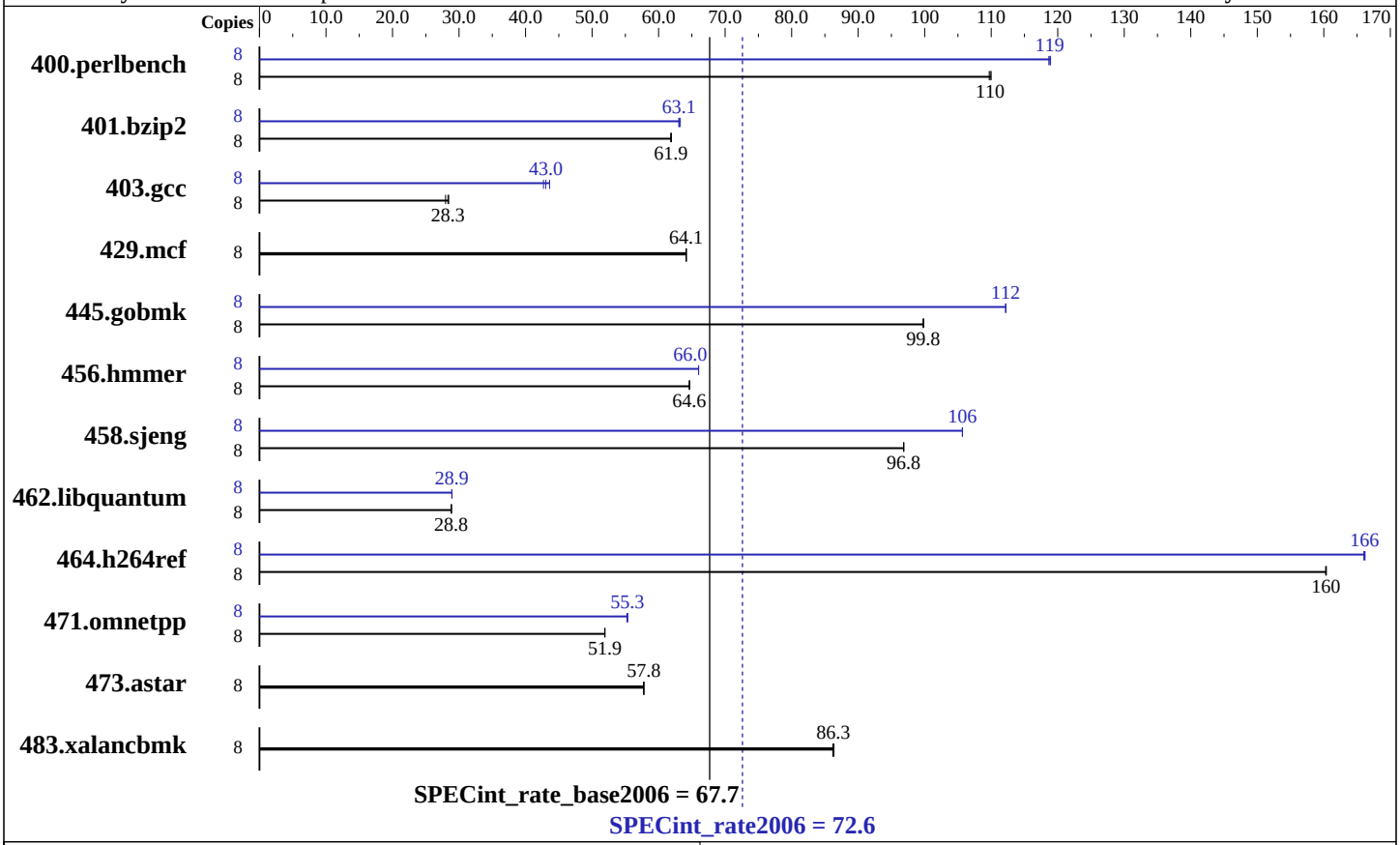
Acer Altos R520 (Intel Xeon E5335, 2.0GHz)

SPECint®_rate2006 = 72.6

SPECint_rate_base2006 = 67.7

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:	8 cores, 2 chips, 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	8	711	110	713	110	**712**	**110**	8	657	119	**658**	**119**	659	119
401.bzip2	8	**1248**	**61.9**	1247	61.9	1248	61.8	8	1220	63.3	1225	63.0	**1224**	**63.1**
403.gcc	8	**2273**	**28.3**	2302	28.0	2264	28.4	8	1477	43.6	**1496**	**43.0**	1508	42.7
429.mcf	8	1138	64.1	1137	64.2	**1138**	**64.1**	8	1138	64.1	1137	64.2	**1138**	**64.1**
445.gobmk	8	841	99.8	841	99.8	**841**	**99.8**	8	**748**	**112**	748	112	748	112
456.hmmer	8	1154	64.7	1155	64.6	**1155**	**64.6**	8	1131	66.0	**1131**	**66.0**	1131	66.0
458.sjeng	8	1000	96.8	**999**	**96.8**	999	96.9	8	**916**	**106**	916	106	916	106
462.libquantum	8	**5748**	**28.8**	5744	28.9	5750	28.8	8	**5728**	**28.9**	5734	28.9	5728	28.9
464.h264ref	8	1104	160	**1104**	**160**	1105	160	8	1065	166	1066	166	**1066**	**166**
471.omnetpp	8	963	51.9	**963**	**51.9**	963	51.9	8	903	55.4	**904**	**55.3**	905	55.2
473.astar	8	972	57.8	**972**	**57.8**	973	57.7	8	972	57.8	**972**	**57.8**	973	57.7
483.xalancbmk	8	640	86.2	**640**	**86.3**	639	86.4	8	640	86.2	**640**	**86.3**	639	86.4

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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