SPEC® CINT2006 Result

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Acer Incorporated

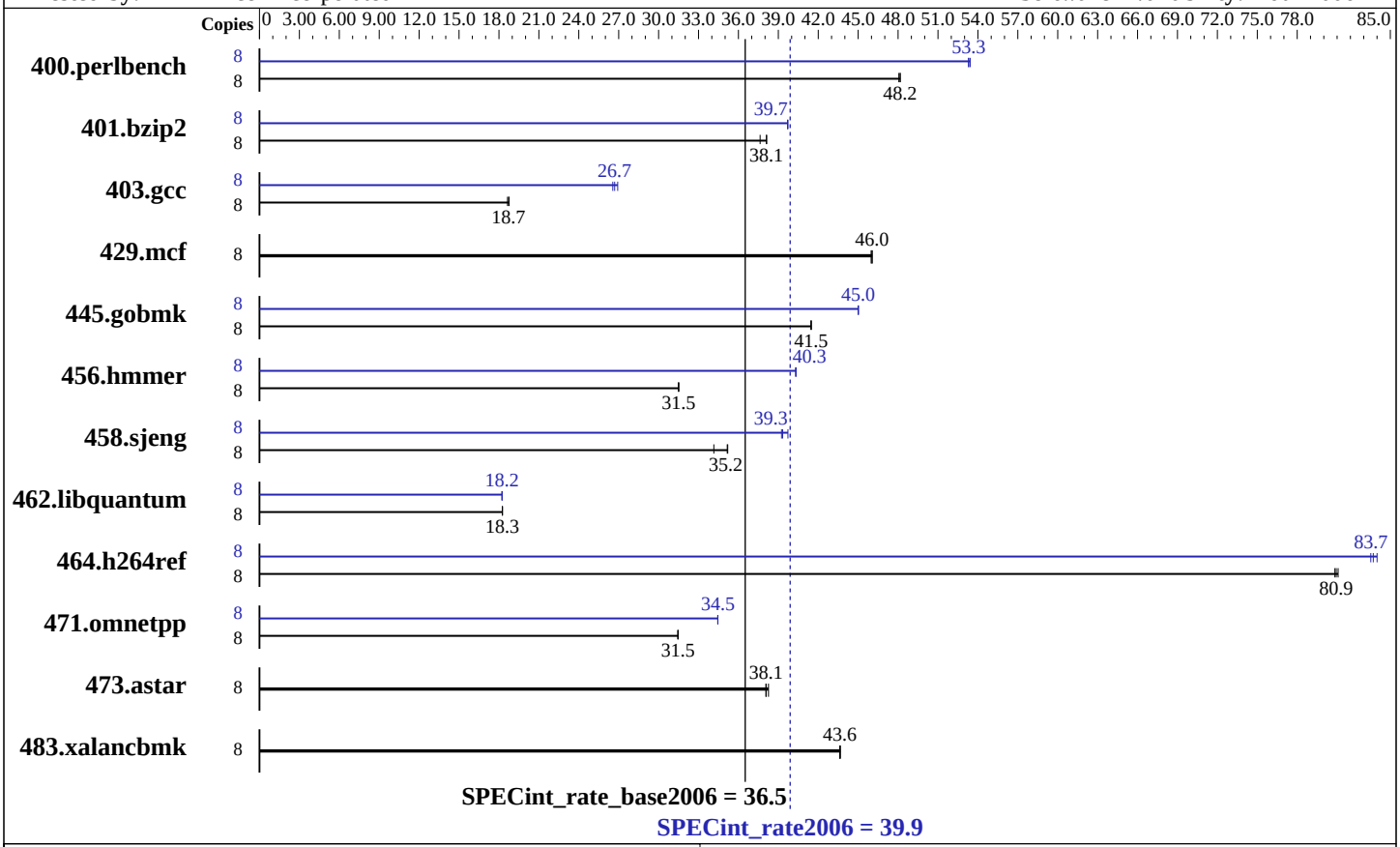
Acer Altos R910 (Intel Xeon 7140M, 3.4GHz)

SPECint®_rate2006 = 39.9

SPECint_rate_base2006 = 36.5

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

Test date: Apr-2007
Hardware Availability: Aug-2006
Software Availability: Jul-2006



Hardware

CPU Name:	Intel Xeon 7140M
CPU Characteristics:	800MHz system bus
CPU MHz:	3400
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip, 2 threads/core
CPU(s) orderable:	1,2,3,4 chips
Primary Cache:	12 K micro-ops I + 16 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core
L3 Cache:	16 MB I+D on chip per chip
Other Cache:	None
Memory:	16 GB (16 x 1024MB ECC DDR2-400 SDRAM CL3-3-3)
Disk Subsystem:	1 x 73GB 10000RPM SAS HDD
Other Hardware:	None

Software

Operating System:	Microsoft Windows Server 2003 Enterprise 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	1623	48.2	**1623**	**48.2**	1626	48.1	8	1467	53.3	**1466**	**53.3**	1463	53.4
401.bzip2	8	2052	37.6	2025	38.1	**2026**	**38.1**	8	1944	39.7	1945	39.7	**1944**	**39.7**
403.gcc	8	3454	18.6	3432	18.8	**3439**	**18.7**	8	**2412**	**26.7**	2425	26.6	2392	26.9
429.mcf	8	1584	46.1	1587	46.0	**1585**	**46.0**	8	1584	46.1	1587	46.0	**1585**	**46.0**
445.gobmk	8	2024	41.5	**2024**	**41.5**	2023	41.5	8	**1864**	**45.0**	1865	45.0	1864	45.0
456.hmmer	8	2369	31.5	2369	31.5	**2369**	**31.5**	8	**1851**	**40.3**	1851	40.3	1851	40.3
458.sjeng	8	2750	35.2	2834	34.2	**2753**	**35.2**	8	2467	39.2	**2462**	**39.3**	2437	39.7
462.libquantum	8	9075	18.3	**9081**	**18.3**	9081	18.3	8	**9090**	**18.2**	9091	18.2	9090	18.2
464.h264ref	8	2184	81.1	2190	80.8	**2188**	**80.9**	8	2108	84.0	2119	83.5	**2115**	**83.7**
471.omnetpp	8	**1589**	**31.5**	1590	31.4	1589	31.5	8	1452	34.4	**1451**	**34.5**	1451	34.5
473.astar	8	1475	38.1	**1475**	**38.1**	1468	38.3	8	1475	38.1	**1475**	**38.1**	1468	38.3
483.xalancbmk	8	**1265**	**43.6**	1264	43.7	1266	43.6	8	**1265**	**43.6**	1264	43.7	1266	43.6

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
```

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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