SPEC® CINT2006 Result

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Acer Incorporated

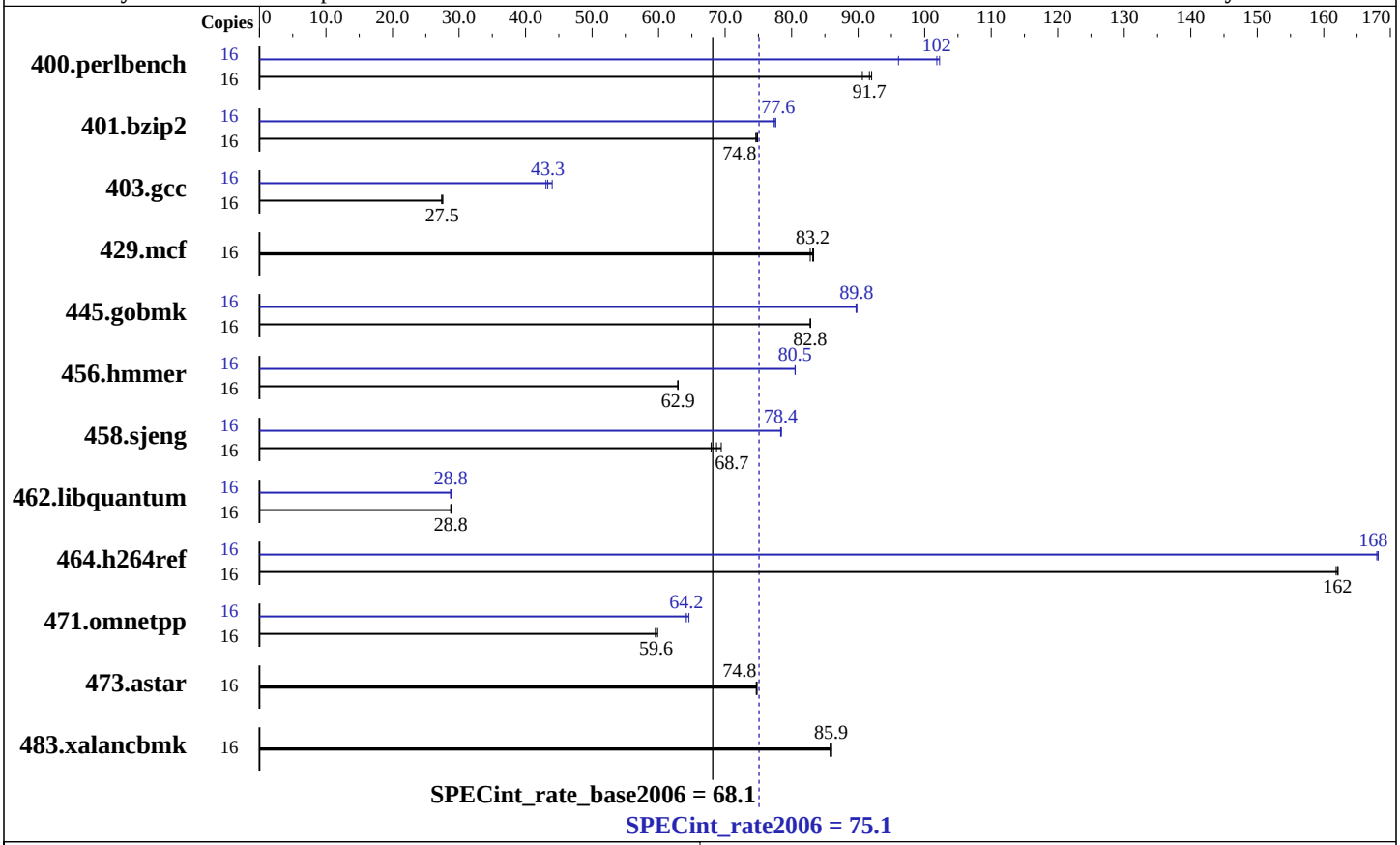
Acer Altos R910 (Intel Xeon 7140M, 3.4GHz)

SPECint®_rate2006 = 75.1

SPECint_rate_base2006 = 68.1

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:	8 cores, 4 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	16	1699	92.0	1725	90.6	**1705**	**91.7**	16	**1535**	**102**	1627	96.1	1529	102
401.bzip2	16	2062	74.9	**2065**	**74.8**	2069	74.6	16	1996	77.4	**1991**	**77.6**	1990	77.6
403.gcc	16	4704	27.4	4672	27.6	**4691**	**27.5**	16	**2972**	**43.3**	2991	43.1	2927	44.0
429.mcf	16	**1755**	**83.2**	1752	83.3	1762	82.8	16	**1755**	**83.2**	1752	83.3	1762	82.8
445.gobmk	16	2026	82.9	2027	82.8	**2027**	**82.8**	16	**1870**	**89.8**	1872	89.7	1869	89.8
456.hmmer	16	2374	62.9	2373	62.9	**2373**	**62.9**	16	1853	80.5	1854	80.5	**1854**	**80.5**
458.sjeng	16	2852	67.9	**2818**	**68.7**	2789	69.4	16	2467	78.5	2471	78.3	**2470**	**78.4**
462.libquantum	16	11525	28.8	**11522**	**28.8**	11509	28.8	16	11535	28.7	**11523**	**28.8**	11518	28.8
464.h264ref	16	**2185**	**162**	2188	162	2184	162	16	2106	168	2108	168	**2106**	**168**
471.omnetpp	16	1671	59.9	1680	59.5	**1677**	**59.6**	16	**1558**	**64.2**	1562	64.0	1549	64.6
473.astar	16	1504	74.7	1502	74.8	**1502**	**74.8**	16	1504	74.7	1502	74.8	**1502**	**74.8**
483.xalancbmk	16	**1285**	**85.9**	1287	85.8	1284	86.0	16	**1285**	**85.9**	1287	85.8	1284	86.0

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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