SPEC® CINT2006 Result

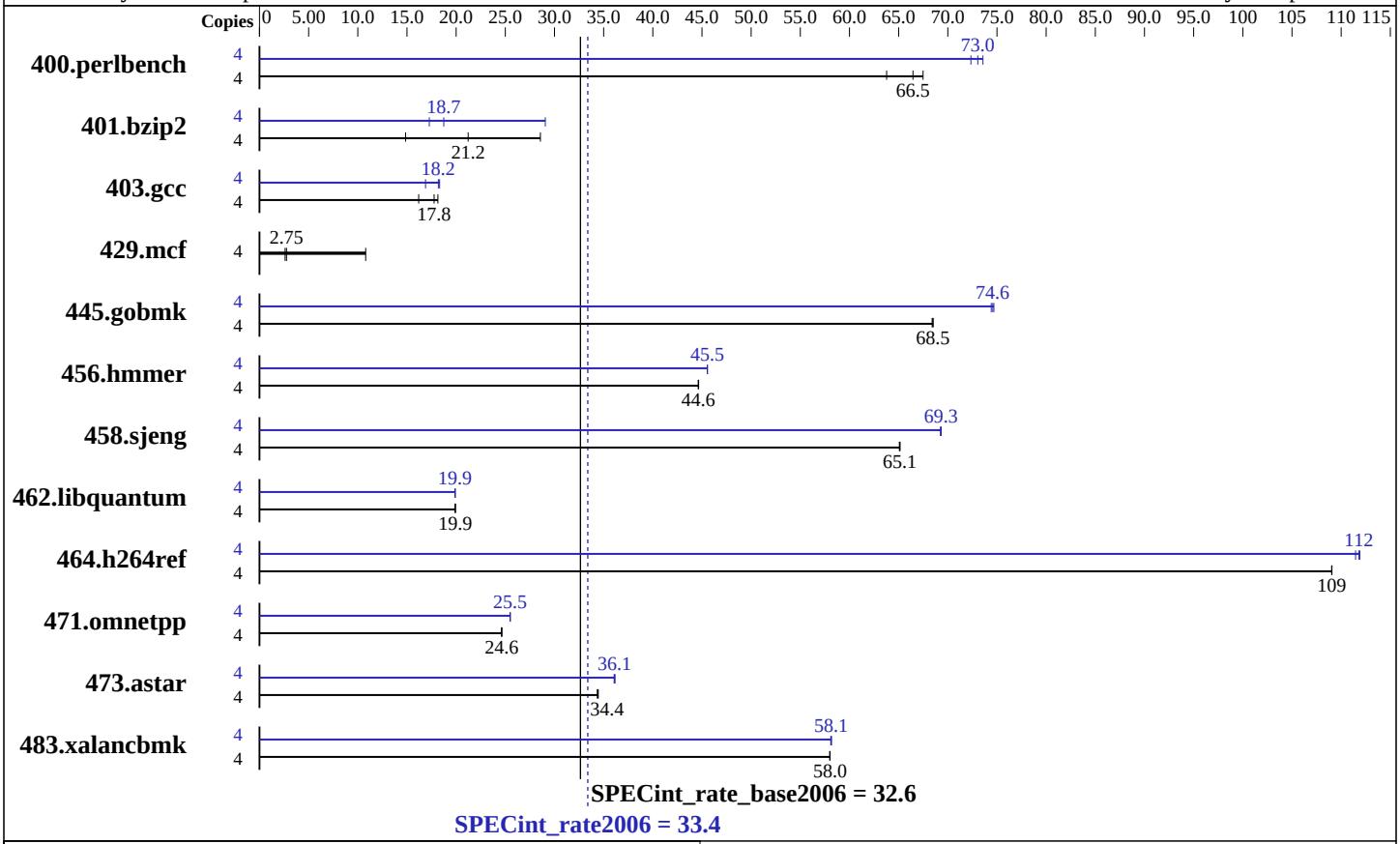
Supermicro Motherboard PDSMI+

SPECint®_rate2006 = 33.4

SPECint_rate_base2006 = 32.6

CPU2006 license: 001176
Test sponsor: Supermicro
Tested by: Supermicro

Test date: Jul-2007
Hardware Availability: May-2007
Software Availability: Apr-2007



Hardware

CPU Name:	Intel Core 2 Quad Q6700
CPU Characteristics:	2.67GHz 1066 MHz FSB
CPU MHz:	2667
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip
CPU(s) orderable:	1 chip
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:	2 GB (2 X 1GB ECC PC2-5300, CL5, DDR2)
Disk Subsystem:	ST3750640AS 750GB SATA II, 7200RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise Edition W/ SP1
Compiler:	Intel C++ Compiler for IA32 version 9.1 Build no 20070322Z
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	SmartHeap Library Version 8.0

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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	613	63.8	**588**	**66.5**	579	67.5	4	**535**	**73.0**	540	72.3	531	73.6
401.bzip2	4	2598	14.9	1351	28.6	**1819**	**21.2**	4	**2059**	**18.7**	1328	29.1	2235	17.3
403.gcc	4	1989	16.2	**1813**	**17.8**	1775	18.1	4	1758	18.3	1907	16.9	**1770**	**18.2**
429.mcf	4	3378	10.8	**13270**	**2.75**	13995	2.61	4	3378	10.8	**13270**	**2.75**	13995	2.61
445.gobmk	4	613	68.5	**613**	**68.5**	613	68.4	4	564	74.4	562	74.7	**563**	**74.6**
456.hmmer	4	**836**	**44.6**	836	44.7	836	44.6	4	819	45.6	820	45.5	**819**	**45.5**
458.sjeng	4	743	65.1	744	65.1	**743**	**65.1**	4	699	69.2	**698**	**69.3**	698	69.3
462.libquantum	4	4163	19.9	4162	19.9	**4163**	**19.9**	4	4165	19.9	4167	19.9	**4167**	**19.9**
464.h264ref	4	812	109	812	109	**812**	**109**	4	791	112	794	111	**792**	**112**
471.omnetpp	4	**1015**	**24.6**	1015	24.6	1015	24.6	4	**981**	**25.5**	981	25.5	980	25.5
473.astar	4	817	34.4	815	34.5	**817**	**34.4**	4	777	36.2	**778**	**36.1**	779	36.1
483.xalancbmk	4	476	58.0	**476**	**58.0**	476	58.0	4	474	58.2	**475**	**58.1**	475	58.1

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

General Notes

```
Tested systems can be used with SC816S-R700 case,
To ensure system stability,
a 500W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]
Product description located as of
http://www.supermicro.com/products/motherboard/Xeon3000/3000/PDSMi+.cfm
The system bus runs at 1066 MHz
```

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: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

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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: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxP -O2 -Qipo -Qprec-div- -Qunroll4 -Ob2 -Qsfalign16 -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

483.xalancbmk: Same as 471.omnetpp

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/Intel-ic91-ia32-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic91-ia32-flags.xml

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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