SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

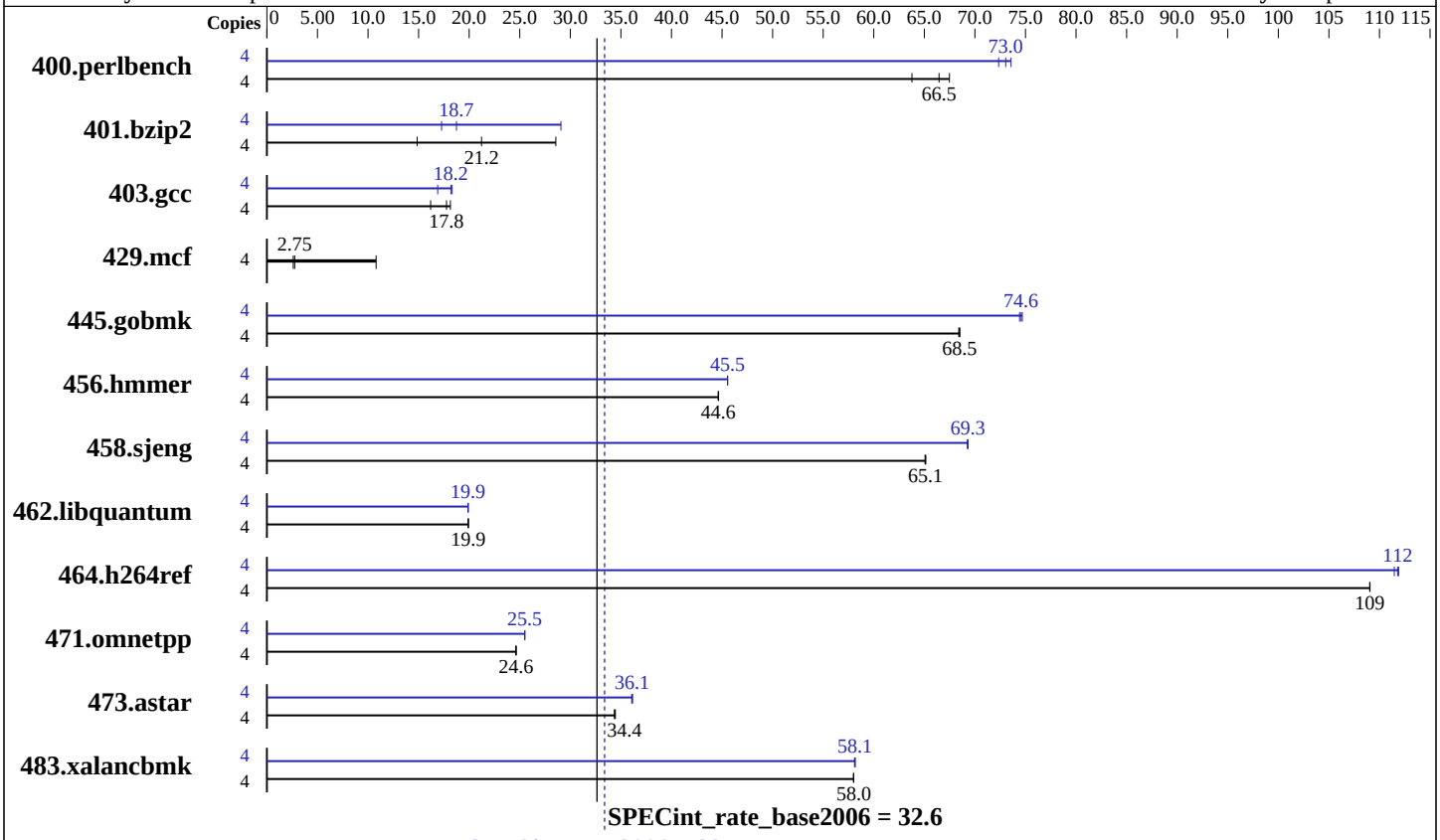
Supermicro
Motherboard PDSMI+

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

SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

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

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

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: -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

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 12:50:09 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 8 August 2007.