SPEC® CINT2006 Result

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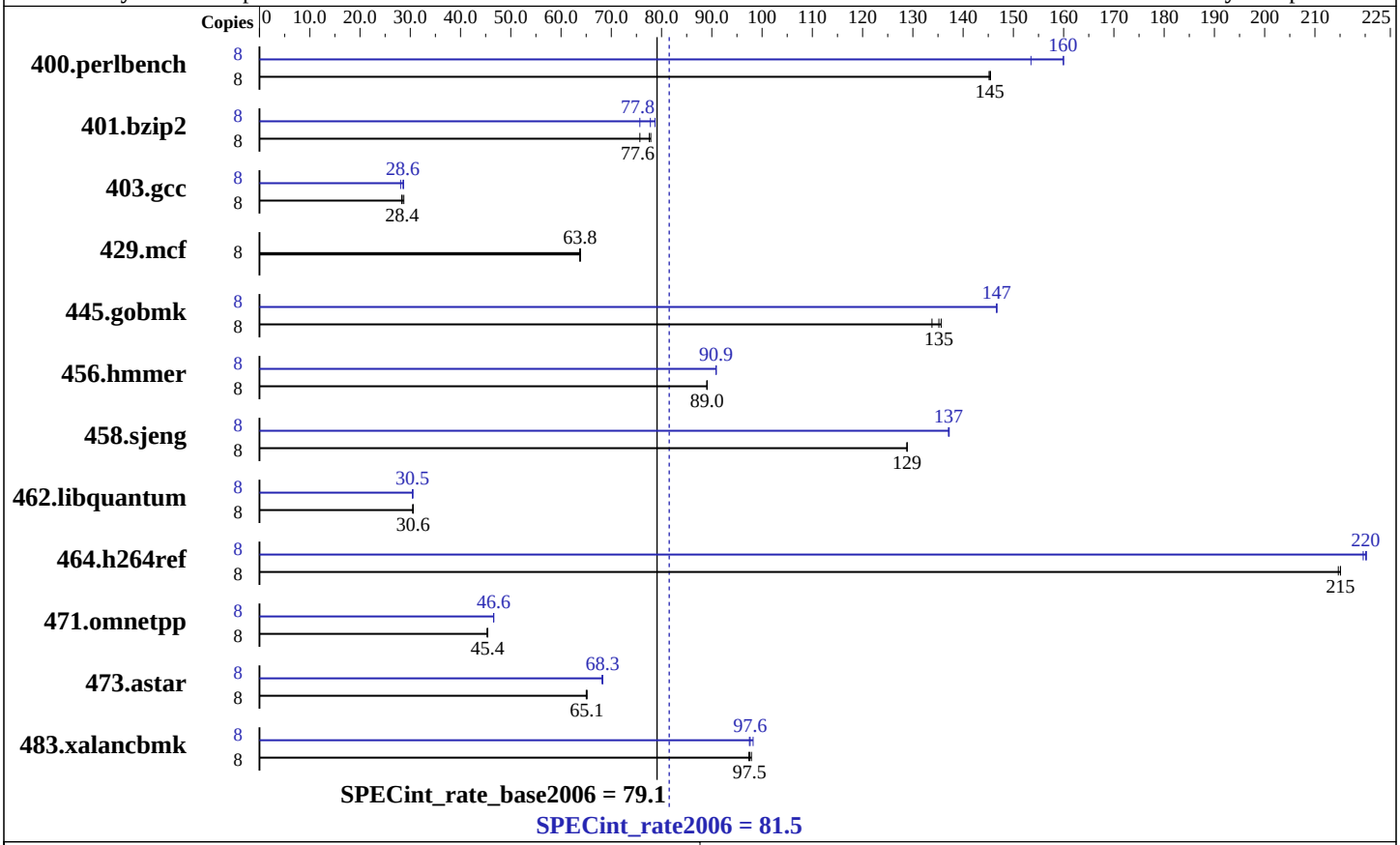
Supermicro Motherboard X7DB8

SPECint®_rate2006 = 81.5

SPECint_rate_base2006 = 79.1

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

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



Hardware

CPU Name:	Intel Xeon X5355
CPU Characteristics:	2.66GHz, 4x2 MB L2 shared, 1333 MHz bus
CPU MHz:	2660
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 2GB ECC, CL5, FBDIMM)
Disk Subsystem:	750GB IDE, 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 from http://www.microquill.com/

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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	**538**	**145**	538	145	537	145	8	509	153	488	160	**489**	**160**
401.bzip2	8	1020	75.7	**995**	**77.6**	992	77.9	8	1020	75.7	**993**	**77.8**	981	78.7
403.gcc	8	**2267**	**28.4**	2242	28.7	2276	28.3	8	2246	28.7	2293	28.1	**2255**	**28.6**
429.mcf	8	1144	63.8	1143	63.9	**1144**	**63.8**	8	1144	63.8	1143	63.9	**1144**	**63.8**
445.gobmk	8	627	134	619	136	**621**	**135**	8	572	147	572	147	**572**	**147**
456.hmmer	8	**838**	**89.0**	838	89.1	839	89.0	8	**821**	**90.9**	822	90.8	821	90.9
458.sjeng	8	**751**	**129**	751	129	751	129	8	706	137	705	137	**706**	**137**
462.libquantum	8	5436	30.5	**5424**	**30.6**	5422	30.6	8	5427	30.5	5448	30.4	**5443**	**30.5**
464.h264ref	8	825	215	823	215	**823**	**215**	8	806	220	804	220	**804**	**220**
471.omnetpp	8	1101	45.4	1104	45.3	**1102**	**45.4**	8	**1073**	**46.6**	1072	46.6	1074	46.6
473.astar	8	864	65.0	862	65.1	**862**	**65.1**	8	822	68.3	**823**	**68.3**	824	68.2
483.xalancbmk	8	564	97.9	**566**	**97.5**	567	97.4	8	562	98.2	566	97.5	**565**	**97.6**

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/Xeon1333/5000P/X7DBR-8.cfm
The system bus runs at 1333 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
```

Continued on next page

Base Optimization Flags (Continued)

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

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

Continued on next page

Peak Optimization Flags (Continued)

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

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

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