SPEC® CINT2006 Result

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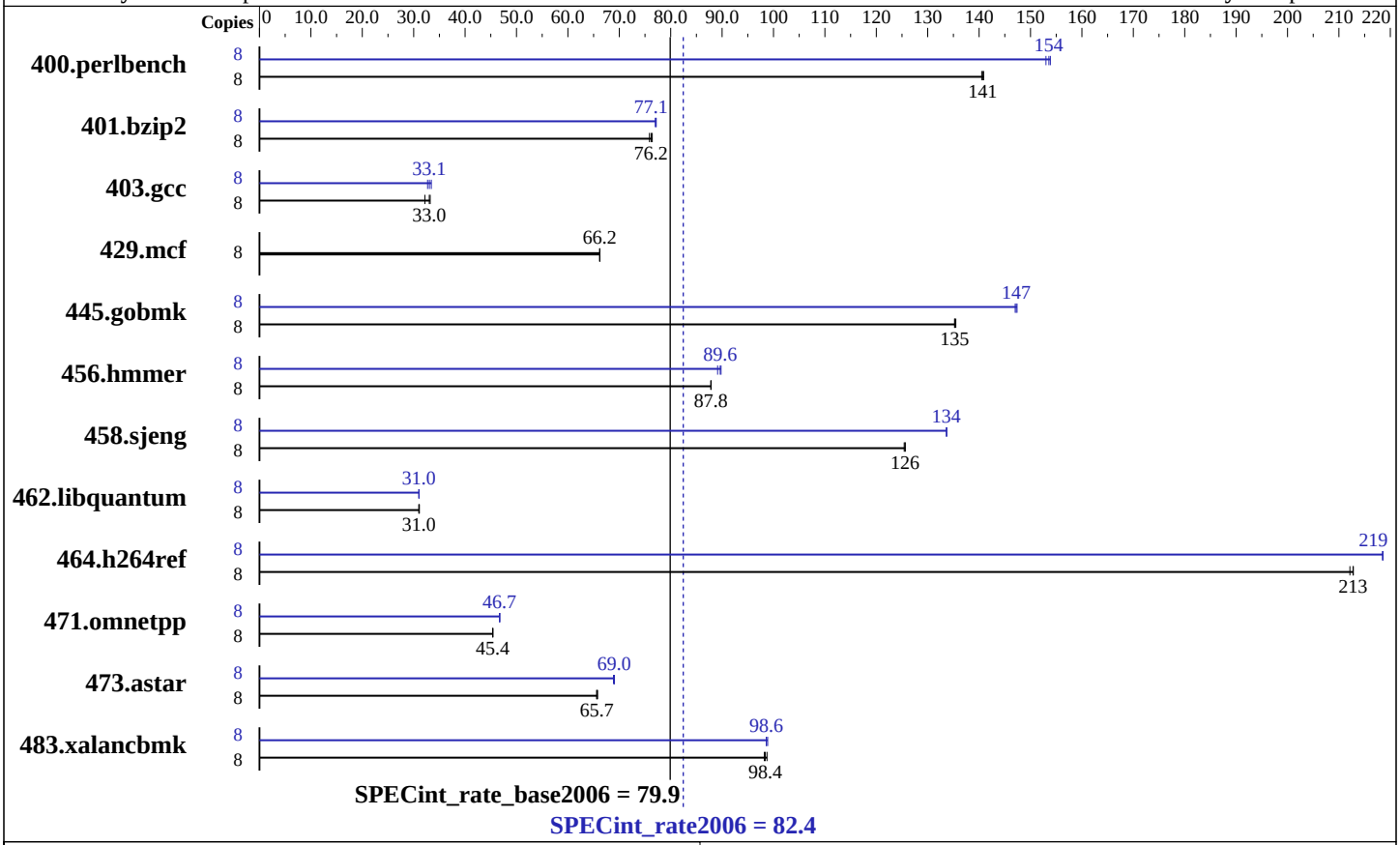
Supermicro Motherboard X7DB3

SPECint®_rate2006 = 82.4

SPECint_rate_base2006 = 79.9

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, 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:	8 GB (8 X 1GB ECC PC2-5300, CL5, FBDIMM)
Disk Subsystem:	WD2500YS-01SHB1 250GB SATA II, 7200RPM, 4 * ST316081 160GB SATA RAID-10
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 Microsoft Visual Studio .Net 2003 (for libraries)
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	556	141	**556**	**141**	555	141	8	511	153	**509**	**154**	508	154
401.bzip2	8	**1013**	**76.2**	1018	75.9	1010	76.4	8	1003	77.0	1000	77.2	**1001**	**77.1**
403.gcc	8	2001	32.2	**1950**	**33.0**	1939	33.2	8	1926	33.4	1969	32.7	**1948**	**33.1**
429.mcf	8	1102	66.2	**1102**	**66.2**	1102	66.2	8	1102	66.2	**1102**	**66.2**	1102	66.2
445.gobmk	8	**620**	**135**	619	135	621	135	8	571	147	**570**	**147**	569	147
456.hmmer	8	850	87.8	**850**	**87.8**	849	87.9	8	**833**	**89.6**	837	89.1	831	89.8
458.sjeng	8	772	125	**771**	**126**	771	126	8	**724**	**134**	724	134	724	134
462.libquantum	8	**5342**	**31.0**	5345	31.0	5329	31.1	8	**5343**	**31.0**	5345	31.0	5341	31.0
464.h264ref	8	835	212	832	213	**832**	**213**	8	**810**	**219**	810	219	810	219
471.omnetpp	8	**1102**	**45.4**	1102	45.4	1101	45.4	8	1070	46.7	**1070**	**46.7**	1070	46.7
473.astar	8	854	65.8	856	65.6	**855**	**65.7**	8	813	69.1	**813**	**69.0**	816	68.9
483.xalancbmk	8	562	98.2	**561**	**98.4**	559	98.7	8	**560**	**98.6**	560	98.6	558	98.9

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 CSE-825TQ-R700LPV 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/X7DB3.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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