SPEC® CINT2006 Result

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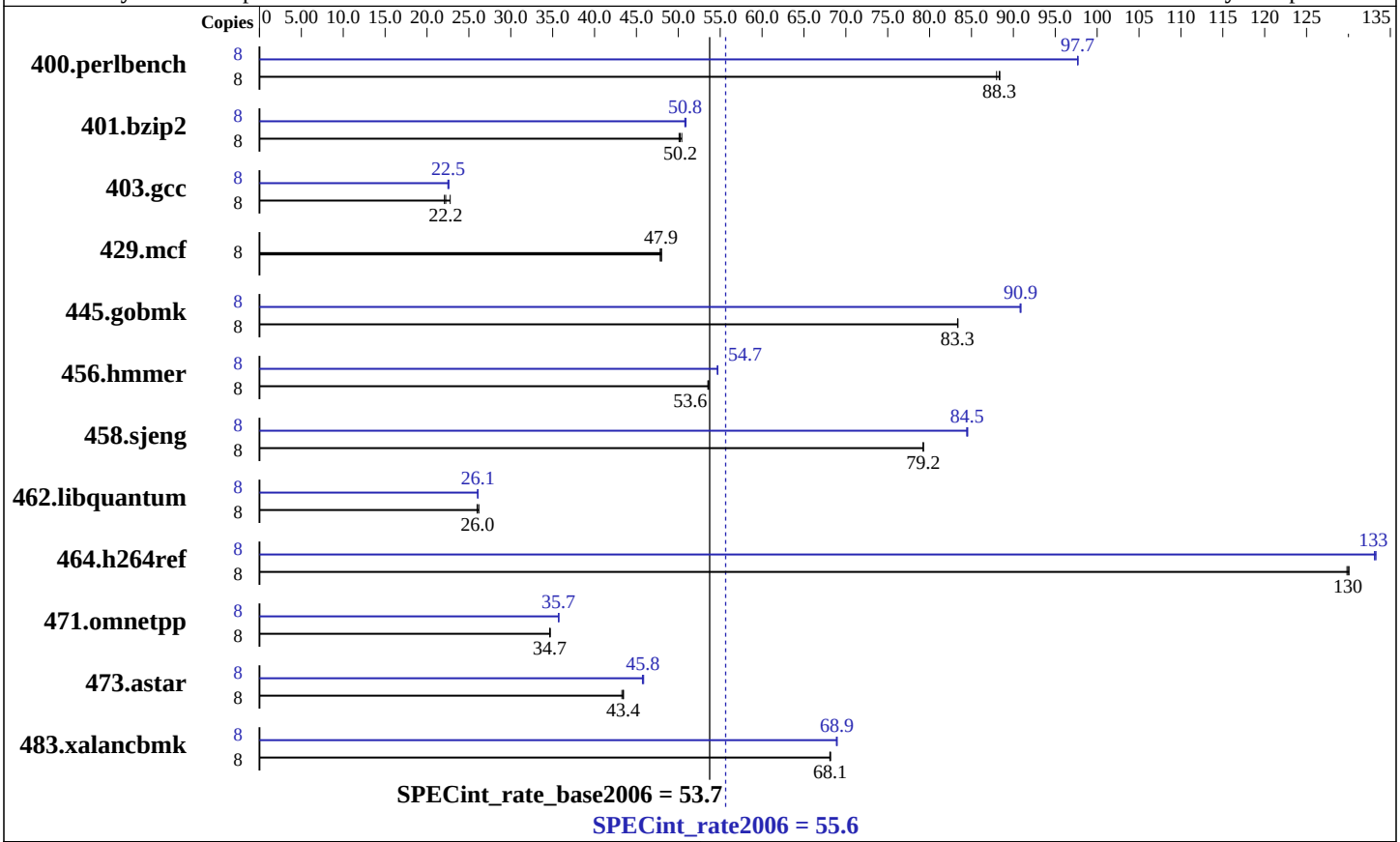
Supermicro
Motherboard X7DA8+

SPECint®_rate2006 = 55.6

SPECint_rate_base2006 = 53.7

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 L5310
CPU Characteristics:	1.60GHz, 1066 MHz Bus
CPU MHz:	1600
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 PC2-5300, 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 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

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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	888	88.0	**885**	**88.3**	884	88.4	8	800	97.7	800	97.7	**800**	**97.7**
401.bzip2	8	1541	50.1	**1537**	**50.2**	1531	50.4	8	1516	50.9	1520	50.8	**1519**	**50.8**
403.gcc	8	2828	22.8	2917	22.1	**2897**	**22.2**	8	**2857**	**22.5**	2847	22.6	2863	22.5
429.mcf	8	1520	48.0	1525	47.8	**1522**	**47.9**	8	1520	48.0	1525	47.8	**1522**	**47.9**
445.gobmk	8	1007	83.3	**1007**	**83.3**	1006	83.4	8	923	90.9	**923**	**90.9**	924	90.8
456.hmmer	8	**1392**	**53.6**	1394	53.5	1392	53.6	8	1364	54.7	1366	54.7	**1364**	**54.7**
458.sjeng	8	**1221**	**79.2**	1222	79.2	1221	79.3	8	1145	84.6	1147	84.4	**1146**	**84.5**
462.libquantum	8	6329	26.2	6380	26.0	**6367**	**26.0**	8	**6359**	**26.1**	6358	26.1	6365	26.0
464.h264ref	8	**1362**	**130**	1364	130	1361	130	8	1330	133	**1329**	**133**	1328	133
471.omnetpp	8	1440	34.7	**1443**	**34.7**	1443	34.6	8	1399	35.7	**1400**	**35.7**	1400	35.7
473.astar	8	1292	43.5	1298	43.3	**1294**	**43.4**	8	1228	45.7	**1227**	**45.8**	1225	45.9
483.xalancbmk	8	811	68.1	**810**	**68.1**	810	68.2	8	**801**	**68.9**	802	68.9	800	69.0

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-833S-R760 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/Xeon1333/5000X/X7DA8+.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
```

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.

Tested with SPEC CPU2006 v1.0.1.
Report generated on Tue Jul 22 13:20:40 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 24 July 2007.