SPEC® CINT2006 Result

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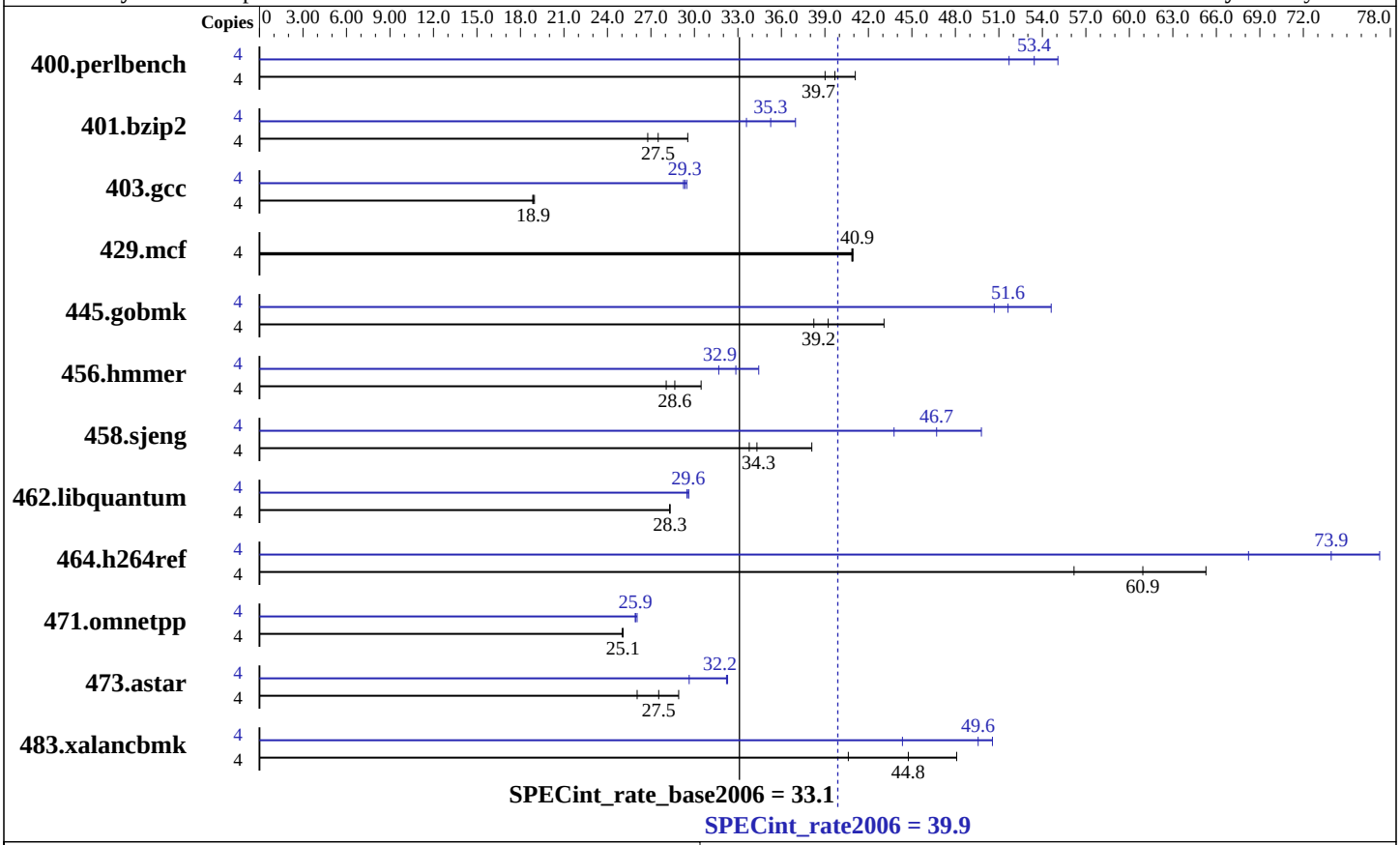
Supermicro
Motherboard PDSMA+

SPECint®_rate2006 = 39.9

SPECint_rate_base2006 = 33.1

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

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



Hardware

CPU Name:	Intel Core 2 Extreme QX6700
CPU Characteristics:	2.66GHz 1066 MHz System Bus
CPU MHz:	2660
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:	8 GB (4 X 2GB ECC PC2-5300, CL5, DDR2)
Disk Subsystem:	250GB SATA, 7200RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise Edition W/ SP1
Compiler:	Intel C++ Compiler for IA32 version 10.0 Build 20070426 Package ID: W_CC_P_10.0.025 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	4	**985**	**39.7**	1002	39.0	951	41.1	4	756	51.7	710	55.1	**731**	**53.4**
401.bzip2	4	**1404**	**27.5**	1441	26.8	1307	29.5	4	1149	33.6	1044	37.0	**1095**	**35.3**
403.gcc	4	**1705**	**18.9**	1708	18.8	1698	19.0	4	**1097**	**29.3**	1093	29.5	1101	29.2
429.mcf	4	893	40.9	**892**	**40.9**	891	40.9	4	893	40.9	**892**	**40.9**	891	40.9
445.gobmk	4	1097	38.2	**1070**	**39.2**	974	43.1	4	**813**	**51.6**	768	54.6	828	50.7
456.hmmer	4	**1303**	**28.6**	1330	28.1	1225	30.5	4	**1136**	**32.9**	1084	34.4	1178	31.7
458.sjeng	4	**1411**	**34.3**	1433	33.8	1270	38.1	4	**1036**	**46.7**	972	49.8	1106	43.8
462.libquantum	4	2927	28.3	**2928**	**28.3**	2929	28.3	4	2800	29.6	2811	29.5	**2801**	**29.6**
464.h264ref	4	1576	56.2	**1453**	**60.9**	1356	65.3	4	**1197**	**73.9**	1146	77.3	1298	68.2
471.omnetpp	4	**997**	**25.1**	999	25.0	997	25.1	4	**964**	**25.9**	960	26.0	964	25.9
473.astar	4	1078	26.0	**1020**	**27.5**	971	28.9	4	**872**	**32.2**	870	32.3	947	29.6
483.xalancbmk	4	680	40.6	**617**	**44.8**	574	48.1	4	546	50.6	**557**	**49.6**	622	44.3

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-733T-450 case,
Product description located as of http://www.supermicro.com/products/motherboard/Xeon3000/3000/PDSMA+.cfm
The system bus runs at 1066 MHz
"start /b /wait /affinity" used to bind processes to CPUs.
```

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 -Qansi-alias
-Qprefetch /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
-link /FORCE:MULTIPLE

429.mcf: basepeak = yes

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo
-Qprec_div- -Qansi-alias /F512000000
-link /FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

462.libquantum: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
-Ob0 -Qprefetch -Qopt-streaming-stores:always /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

464.h264ref: Same as 456.hmmer

C++ benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

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-ic10-ia32-intel64-linux-flags.20090714.18.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.18.xml

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