SPEC® CINT2006 Result

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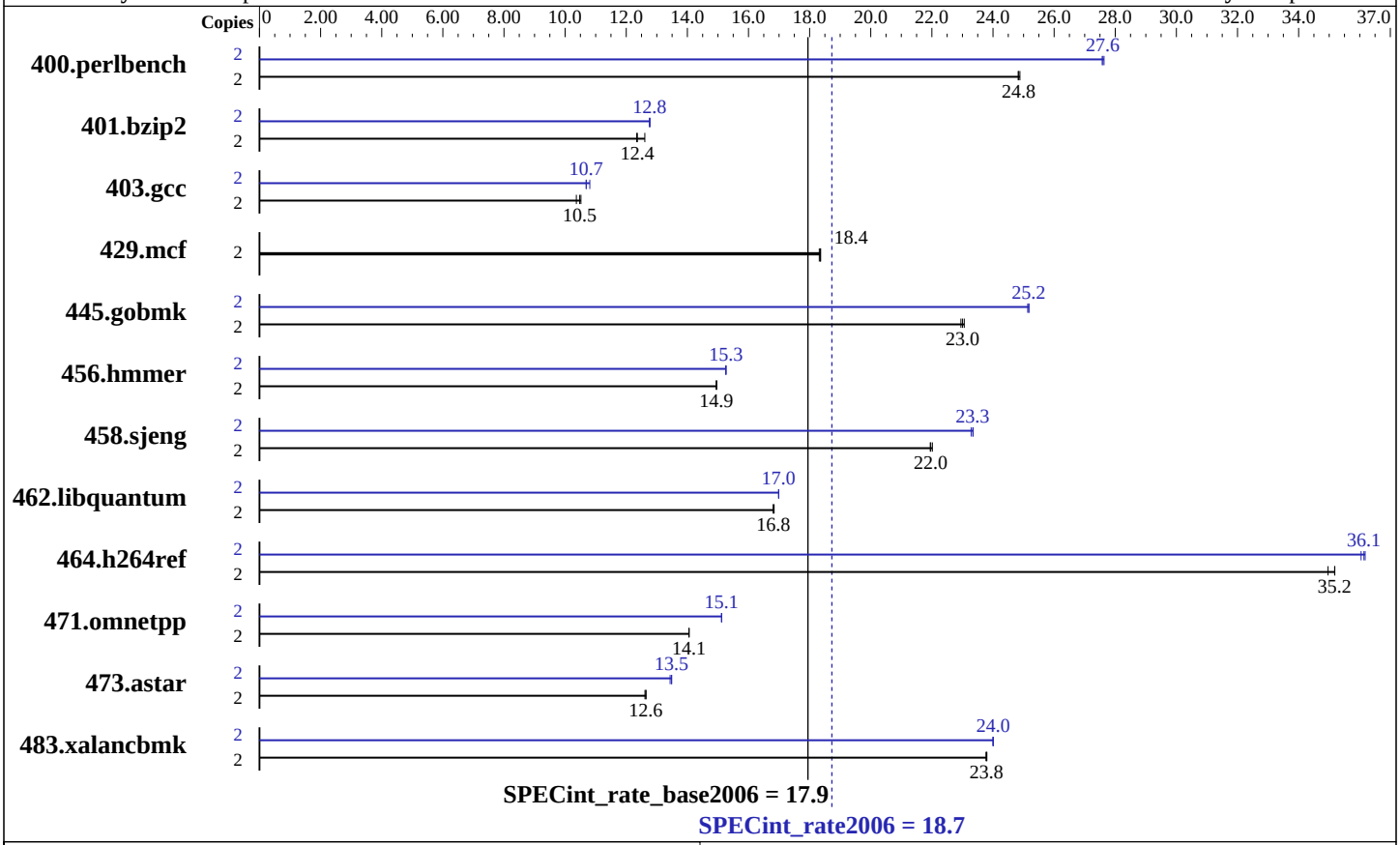
Supermicro
Motherboard PDSBA+

SPECint®_rate2006 = 18.7

SPECint_rate_base2006 = 17.9

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

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



Hardware

CPU Name:	Intel Core 2 Duo E4300
CPU Characteristics:	1.8GHz, 800MHz bus
CPU MHz:	1800
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	2 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	2 GB (2X 1GB ECC, CL4, 533MHz, UnBuffer)
Disk Subsystem:	150GB SATA, 7200RPM
Other Hardware:	None

Software

Operating System:	Windows XP Professional w/ SP2
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	2	787	24.8	785	24.9	**787**	**24.8**	2	707	27.6	**708**	**27.6**	709	27.6
401.bzip2	2	1531	12.6	1564	12.3	**1561**	**12.4**	2	**1512**	**12.8**	1511	12.8	1513	12.8
403.gcc	2	**1537**	**10.5**	1531	10.5	1553	10.4	2	**1506**	**10.7**	1506	10.7	1490	10.8
429.mcf	2	993	18.4	996	18.3	**994**	**18.4**	2	993	18.4	996	18.3	**994**	**18.4**
445.gobmk	2	**912**	**23.0**	914	23.0	910	23.1	2	833	25.2	**834**	**25.2**	835	25.1
456.hmmer	2	1248	14.9	**1248**	**14.9**	1248	15.0	2	**1223**	**15.3**	1222	15.3	1223	15.3
458.sjeng	2	1103	21.9	**1102**	**22.0**	1099	22.0	2	1036	23.4	**1037**	**23.3**	1039	23.3
462.libquantum	2	**2464**	**16.8**	2461	16.8	2465	16.8	2	2439	17.0	**2439**	**17.0**	2440	17.0
464.h264ref	2	1258	35.2	**1258**	**35.2**	1266	35.0	2	1228	36.0	**1225**	**36.1**	1223	36.2
471.omnetpp	2	889	14.1	**889**	**14.1**	890	14.0	2	827	15.1	827	15.1	**827**	**15.1**
473.astar	2	1110	12.6	**1110**	**12.6**	1113	12.6	2	**1041**	**13.5**	1045	13.4	1041	13.5
483.xalancbmk	2	581	23.8	**580**	**23.8**	580	23.8	2	575	24.0	575	24.0	**575**	**24.0**

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 SC733T-645 case,
To ensure system stability, a 450W (minimum) ATX power supply [4-pin +12V AND (20 or 24-pin)] is required.
Product description located as of http://www.supermicro.com/products/motherboard/Core2Duo/965/PDSBA+.cfm
The system bus runs at 800 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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