SPEC® CINT2006 Result

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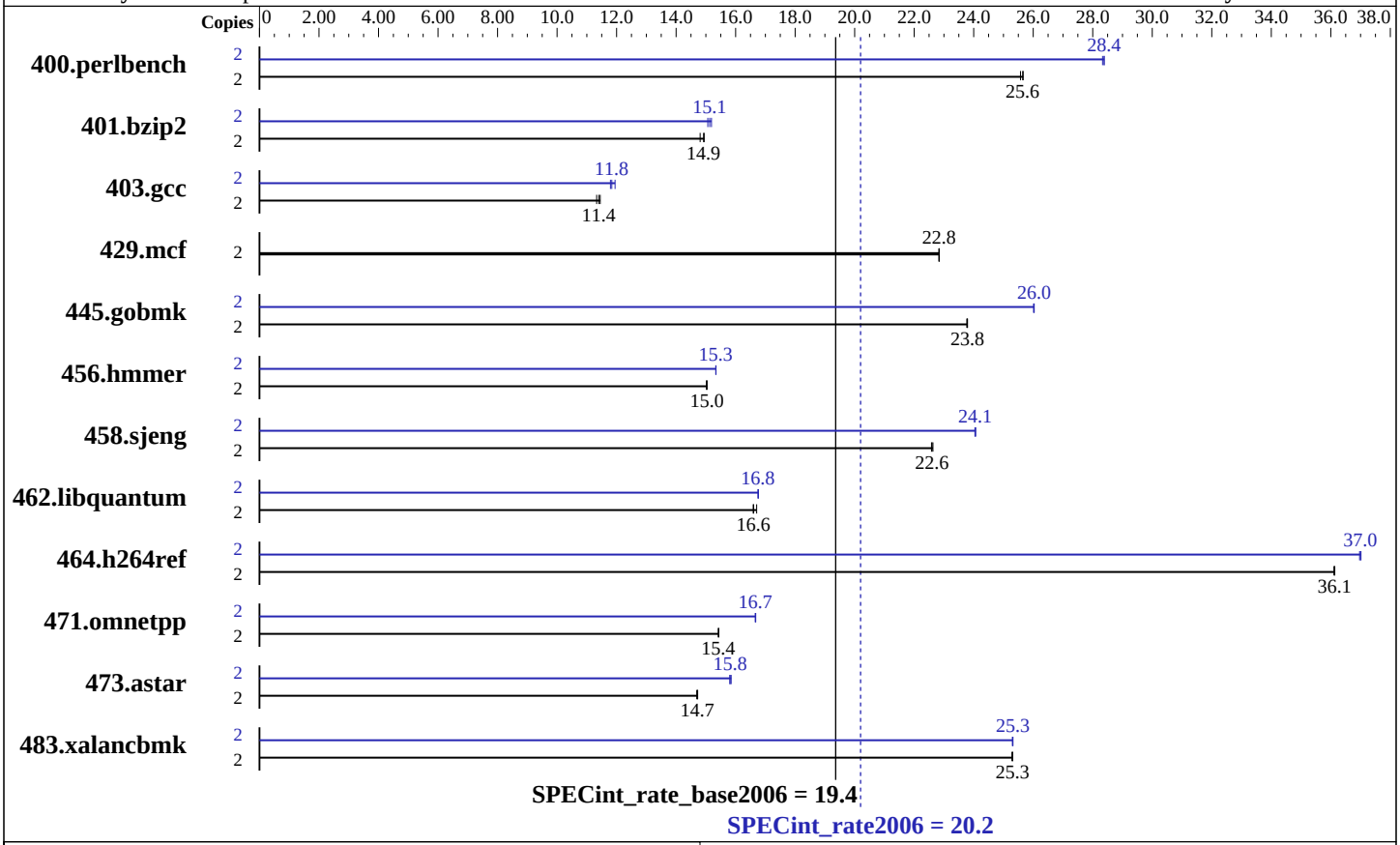
Supermicro
Motherboard PDSMU

SPECint®_rate2006 = 20.2

SPECint_rate_base2006 = 19.4

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

Test date: Apr-2007
Hardware Availability: Dec-2006
Software Availability: Mar-2007



Hardware

CPU Name:	Intel Core 2 Duo E4300
CPU Characteristics:	1.8 GHz, 800 MHz 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:	4 GB (2 X 2GB ECC, CL4, 533MHz, UBDIMM)
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 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	2	764	25.6	761	25.7	**762**	**25.6**	2	690	28.3	688	28.4	**689**	**28.4**
401.bzip2	2	1292	14.9	**1293**	**14.9**	1303	14.8	2	1271	15.2	1281	15.1	**1276**	**15.1**
403.gcc	2	**1412**	**11.4**	1421	11.3	1406	11.5	2	1365	11.8	**1360**	**11.8**	1347	11.9
429.mcf	2	799	22.8	798	22.8	**799**	**22.8**	2	799	22.8	798	22.8	**799**	**22.8**
445.gobmk	2	**882**	**23.8**	882	23.8	883	23.8	2	806	26.0	**806**	**26.0**	807	26.0
456.hmmer	2	**1241**	**15.0**	1241	15.0	1243	15.0	2	1217	15.3	1216	15.3	**1217**	**15.3**
458.sjeng	2	**1071**	**22.6**	1069	22.6	1072	22.6	2	**1006**	**24.1**	1006	24.1	1007	24.0
462.libquantum	2	2498	16.6	2480	16.7	**2496**	**16.6**	2	2473	16.8	2472	16.8	**2473**	**16.8**
464.h264ref	2	1226	36.1	1225	36.1	**1225**	**36.1**	2	1197	37.0	**1196**	**37.0**	1196	37.0
471.omnetpp	2	810	15.4	**810**	**15.4**	811	15.4	2	750	16.7	750	16.7	**750**	**16.7**
473.astar	2	956	14.7	**954**	**14.7**	954	14.7	2	888	15.8	**888**	**15.8**	886	15.9
483.xalancbmk	2	546	25.3	**545**	**25.3**	545	25.3	2	545	25.3	**545**	**25.3**	545	25.3

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-815TQ-R450U case.
For a general system, a 420W (minimum) ATX12V power supply [8-pin +12V AND 24-pin is recommended
to assure system stability].
Product description located as of
http://www.supermicro.com/products/motherboard/Xeon3000/3010/PDSMU.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
```

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

Continued on next page

Peak Optimization Flags (Continued)

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

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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