SPEC® CINT2006 Result

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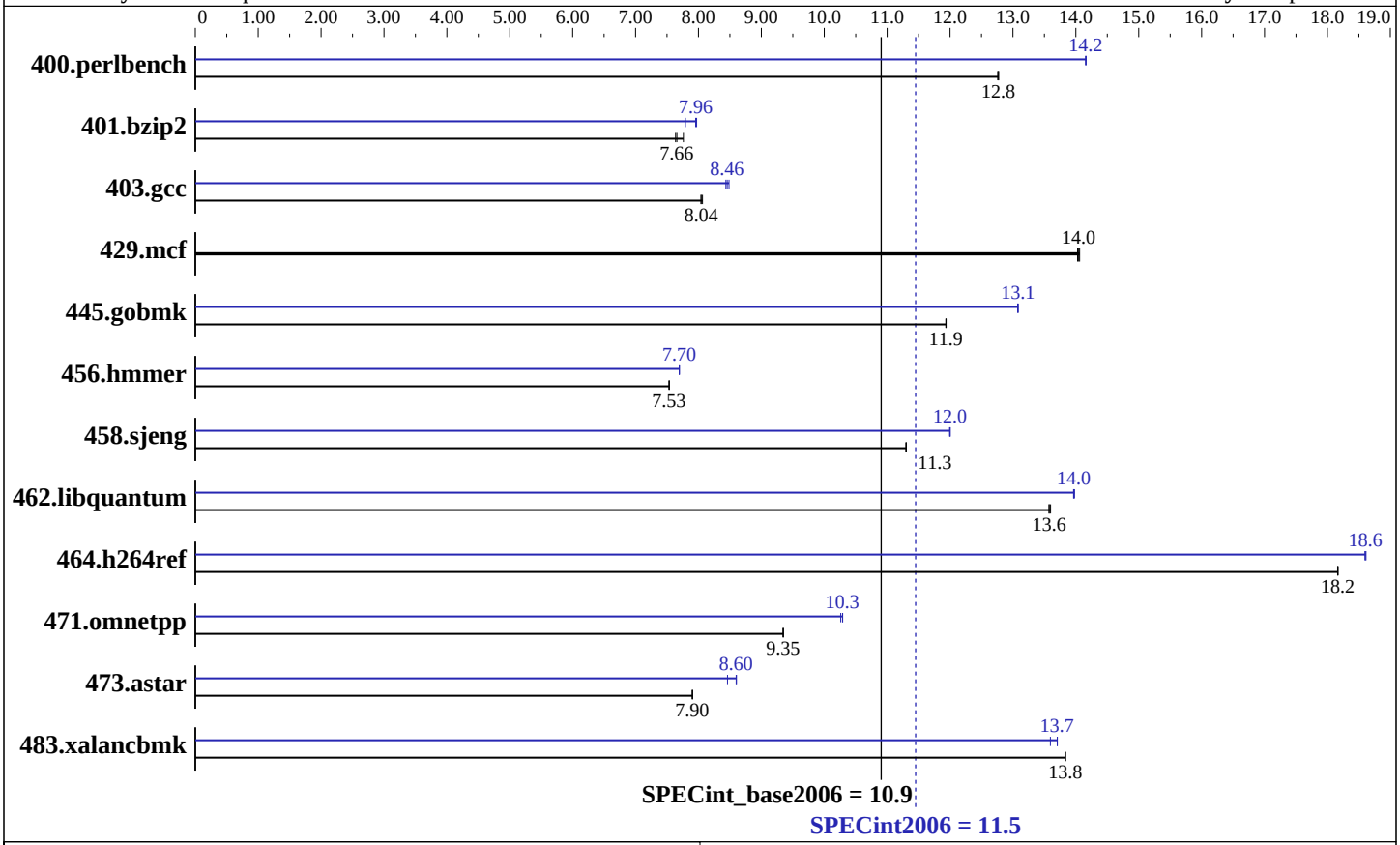
Supermicro Motherboard PDSM4+

SPECint®2006 = 11.5

SPECint_base2006 = 10.9

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

Test date: Apr-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 (4 X 512MB, DDR2 667MHz, CL5, ECC)
Disk Subsystem:	WD2500YS-01SHB1 250GB SATA II, 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	766	12.8	765	12.8	**765**	**12.8**	690	14.2	**690**	**14.2**	690	14.2
401.bzip2	1243	7.76	**1260**	**7.66**	1264	7.64	1211	7.97	1238	7.79	**1213**	**7.96**
403.gcc	998	8.06	**1001**	**8.04**	1001	8.04	949	8.49	954	8.44	**952**	**8.46**
429.mcf	650	14.0	**649**	**14.0**	649	14.1	650	14.0	**649**	**14.0**	649	14.1
445.gobmk	879	11.9	**879**	**11.9**	879	11.9	802	13.1	**802**	**13.1**	802	13.1
456.hmmer	1238	7.54	1239	7.53	**1238**	**7.53**	**1212**	**7.70**	1212	7.70	1213	7.69
458.sjeng	**1071**	**11.3**	1070	11.3	1071	11.3	1009	12.0	**1008**	**12.0**	1008	12.0
462.libquantum	1524	13.6	1527	13.6	**1526**	**13.6**	1482	14.0	1484	14.0	**1484**	**14.0**
464.h264ref	1218	18.2	**1218**	**18.2**	1218	18.2	**1190**	**18.6**	1189	18.6	1190	18.6
471.omnetpp	668	9.35	**669**	**9.35**	669	9.34	609	10.3	607	10.3	**607**	**10.3**
473.astar	888	7.91	**888**	**7.90**	888	7.90	830	8.46	816	8.60	**816**	**8.60**
483.xalancbmk	499	13.8	499	13.8	**499**	**13.8**	508	13.6	503	13.7	**504**	**13.7**

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-823S-R500LP 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/PDSM4+.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
```

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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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