



SPEC® CINT2006 Result

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Supermicro Motherboard PDSMU

SPECint®2006 = 12.0
SPECint_base2006 = 11.5

CPU2006 license: 001176

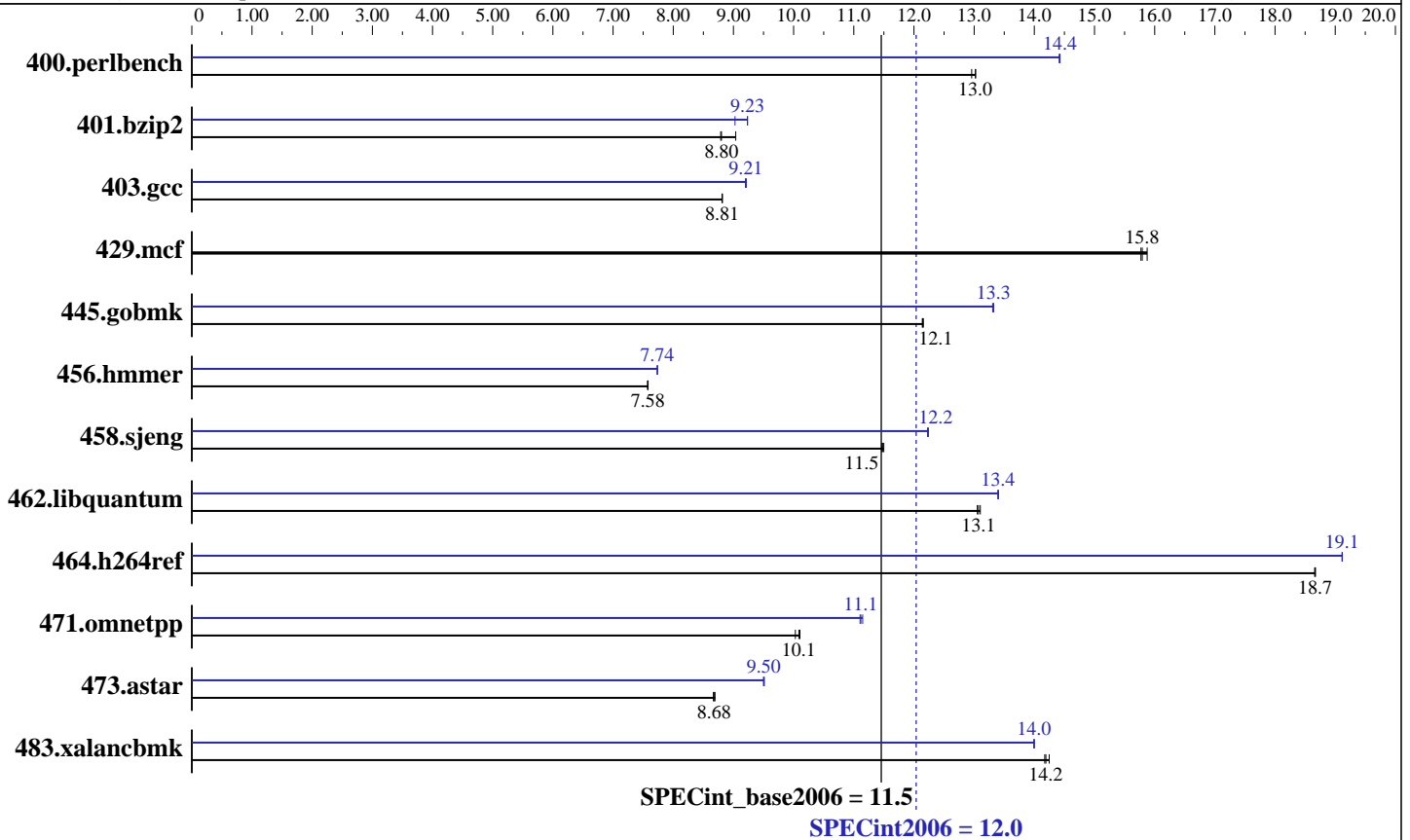
Test sponsor: Supermicro

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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	754	13.0	750	13.0	750	13.0	678	14.4	677	14.4	677	14.4
401.bzip2	1098	8.79	1096	8.80	1068	9.04	1045	9.23	1069	9.03	1045	9.23
403.gcc	913	8.82	914	8.81	913	8.81	874	9.21	874	9.21	875	9.20
429.mcf	574	15.9	577	15.8	578	15.8	574	15.9	577	15.8	578	15.8
445.gobmk	863	12.2	864	12.1	864	12.1	787	13.3	788	13.3	787	13.3
456.hammer	1231	7.58	1232	7.57	1231	7.58	1206	7.73	1206	7.74	1206	7.74
458.sjeng	1052	11.5	1055	11.5	1054	11.5	990	12.2	989	12.2	989	12.2
462.libquantum	1581	13.1	1585	13.1	1587	13.1	1546	13.4	1546	13.4	1547	13.4
464.h264ref	1185	18.7	1186	18.7	1185	18.7	1158	19.1	1158	19.1	1158	19.1
471.omnetpp	619	10.1	623	10.0	620	10.1	562	11.1	561	11.1	563	11.1
473.astar	807	8.69	810	8.67	809	8.68	739	9.50	738	9.51	739	9.50
483.xalancbmk	484	14.2	487	14.2	486	14.2	493	14.0	493	14.0	493	14.0

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-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



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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

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Peak Optimization Flags (Continued)

456.hmmmer: 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- -Qunroll14 -Ob2 -Qsfa1ign16 -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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