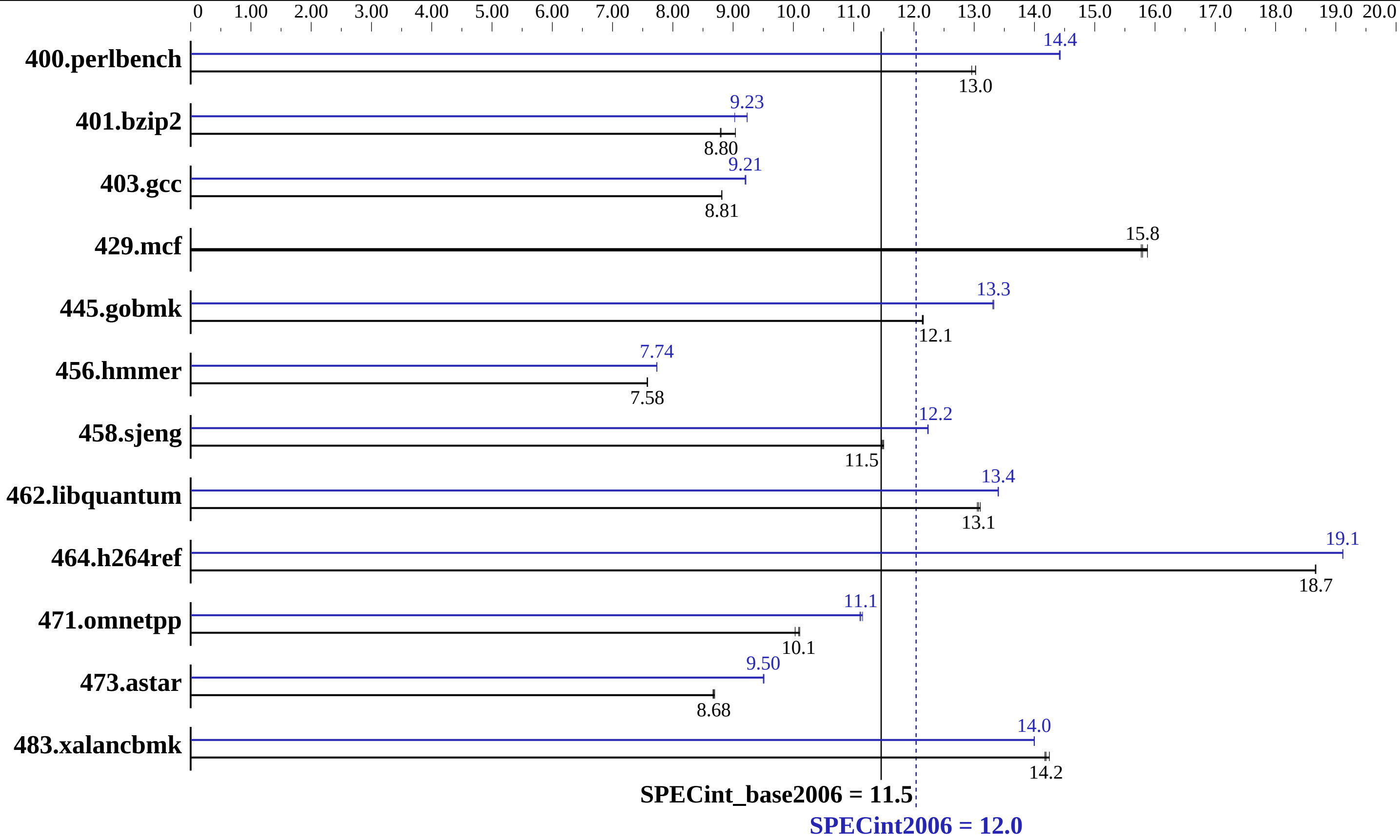
SPEC® CINT2006 Result

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.hmmer	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`

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

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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