SPEC® CINT2006 Result

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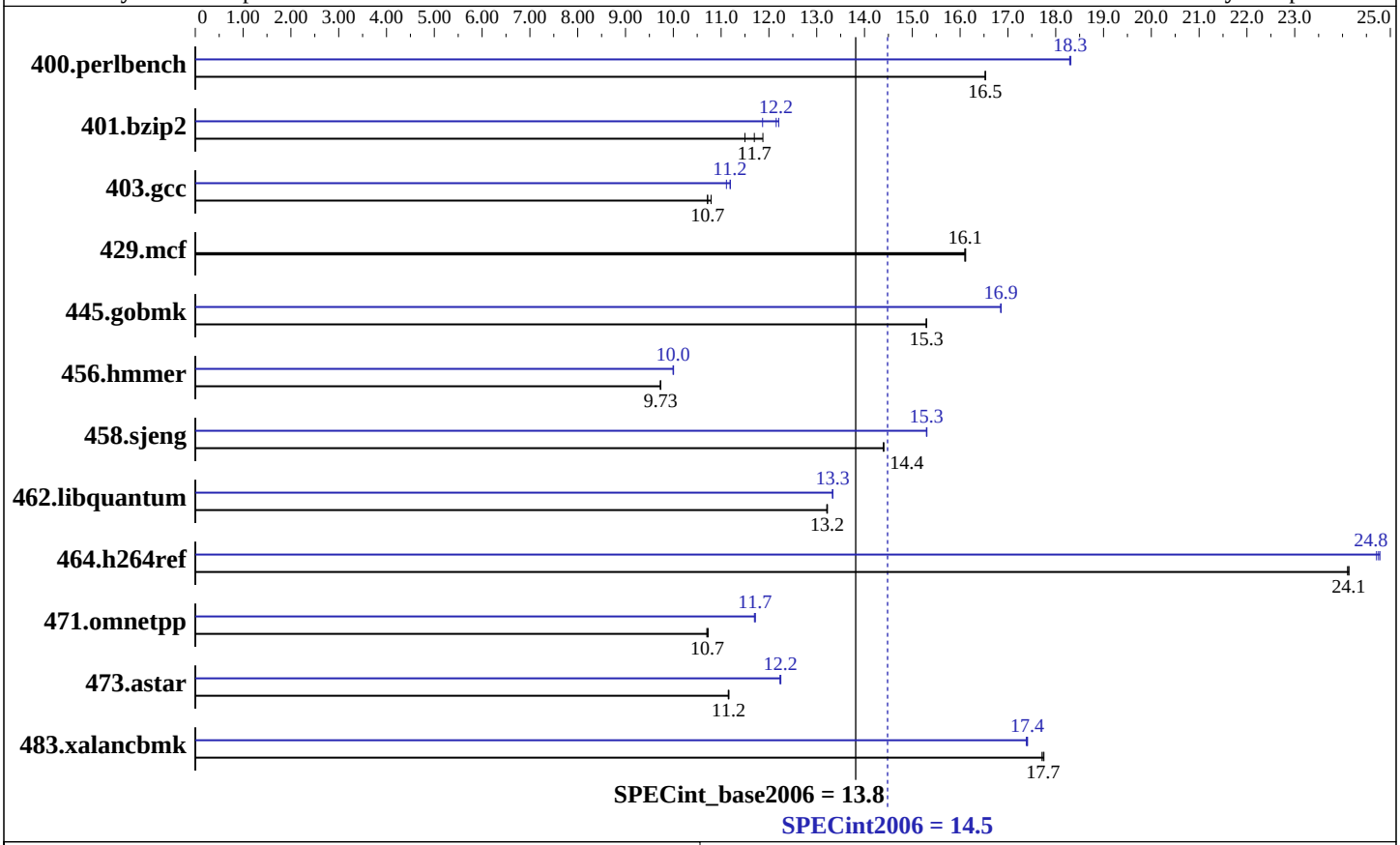
Supermicro Motherboard X7DA3

SPECint®2006 = 14.5

SPECint_base2006 = 13.8

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

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



Hardware

CPU Name:	Intel Xeon 5148 LV
CPU Characteristics:	2.33GHz 1333 System Bus
CPU MHz:	2333
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1, 2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	4 GB (2 X 2GB ECC, CL5, FBDIMM)
Disk Subsystem:	Seagate ST3750640AS 750GB SATA II, 7200RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise Edition W/ SP2
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	591	16.5	**591**	**16.5**	591	16.5	534	18.3	**534**	**18.3**	533	18.3
401.bzip2	**825**	**11.7**	839	11.5	813	11.9	**794**	**12.2**	813	11.9	791	12.2
403.gcc	746	10.8	**751**	**10.7**	751	10.7	724	11.1	719	11.2	**720**	**11.2**
429.mcf	566	16.1	566	16.1	**566**	**16.1**	566	16.1	566	16.1	**566**	**16.1**
445.gobmk	686	15.3	**686**	**15.3**	686	15.3	**622**	**16.9**	623	16.8	622	16.9
456.hmmer	959	9.73	958	9.73	**959**	**9.73**	**933**	**10.0**	933	10.0	933	10.0
458.sjeng	**840**	**14.4**	840	14.4	840	14.4	791	15.3	**791**	**15.3**	791	15.3
462.libquantum	**1567**	**13.2**	1568	13.2	1567	13.2	1554	13.3	**1554**	**13.3**	1554	13.3
464.h264ref	**917**	**24.1**	918	24.1	917	24.1	896	24.7	893	24.8	**894**	**24.8**
471.omnetpp	**583**	**10.7**	584	10.7	583	10.7	**534**	**11.7**	534	11.7	534	11.7
473.astar	**629**	**11.2**	630	11.1	629	11.2	574	12.2	**573**	**12.2**	573	12.2
483.xalancbmk	389	17.8	390	17.7	**389**	**17.7**	397	17.4	396	17.4	**396**	**17.4**

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-825TQ-R700LPV case,
Product description located as of
http://www.supermicro.com/products/motherboard/Xeon1333/5000X/X7DA3.cfm
The system bus runs at 1333 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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