SPEC® CINT2006 Result

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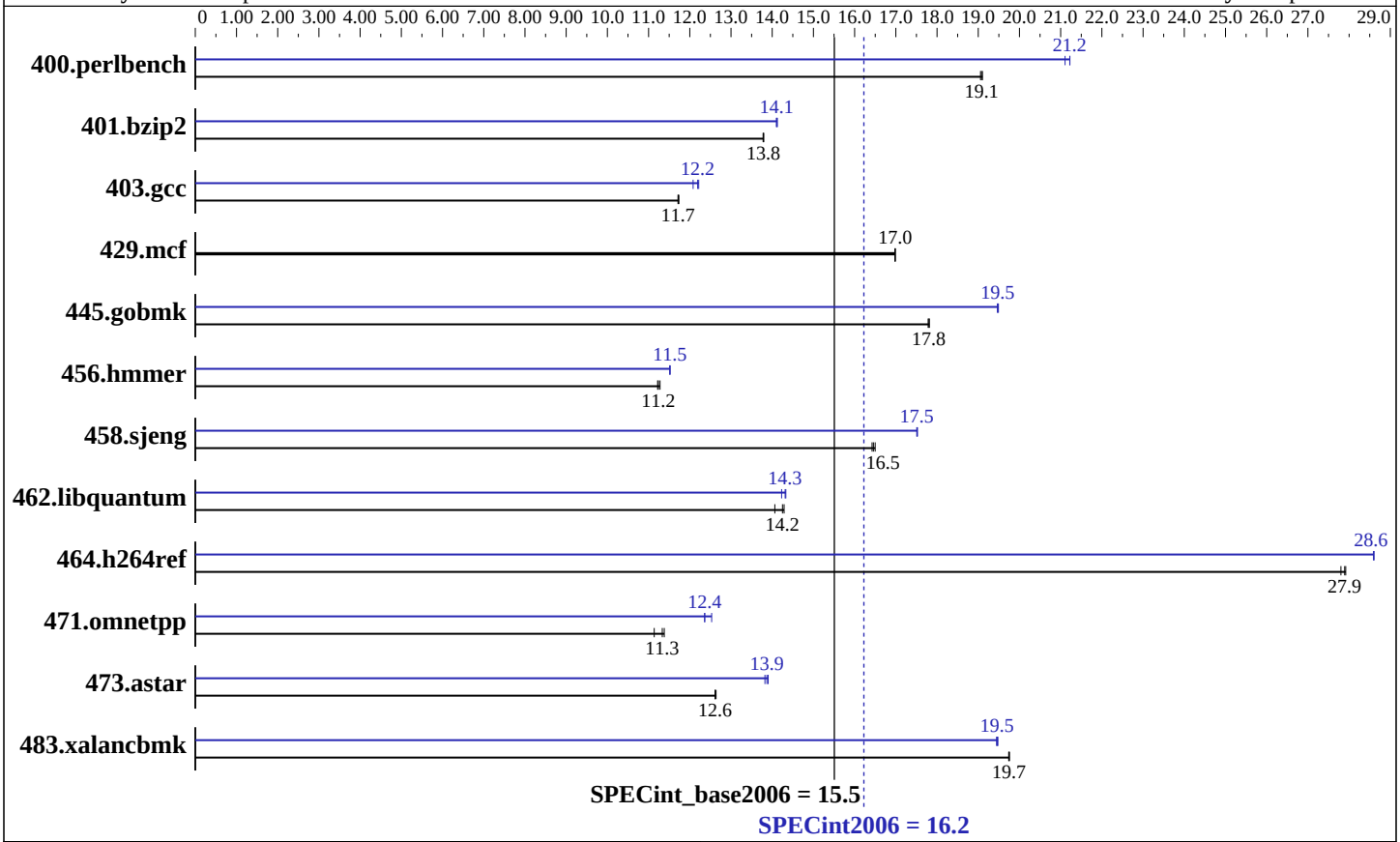
Supermicro Motherboard X7DA8

SPECint®2006 = 16.2

SPECint_base2006 = 15.5

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

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



Hardware

CPU Name:	Intel Xeon X5355
CPU Characteristics:	2.66GHz, 1333 MHz Bus
CPU MHz:	2660
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1, 2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (8 X 2GB ECC PC2-5300, CL5, FBDIMM)
Disk Subsystem:	750GB IDE, 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	513	19.1	511	19.1	**512**	**19.1**	460	21.2	**460**	**21.2**	463	21.1
401.bzip2	700	13.8	**700**	**13.8**	700	13.8	683	14.1	**684**	**14.1**	684	14.1
403.gcc	**687**	**11.7**	687	11.7	686	11.7	666	12.1	**660**	**12.2**	659	12.2
429.mcf	537	17.0	**537**	**17.0**	537	17.0	537	17.0	**537**	**17.0**	537	17.0
445.gobmk	589	17.8	590	17.8	**589**	**17.8**	**539**	**19.5**	538	19.5	539	19.5
456.hmmer	832	11.2	827	11.3	**830**	**11.2**	**810**	**11.5**	810	11.5	810	11.5
458.sjeng	**735**	**16.5**	737	16.4	733	16.5	691	17.5	690	17.5	**691**	**17.5**
462.libquantum	**1454**	**14.2**	1473	14.1	1450	14.3	**1448**	**14.3**	1456	14.2	1446	14.3
464.h264ref	796	27.8	**793**	**27.9**	793	27.9	774	28.6	**774**	**28.6**	774	28.6
471.omnetpp	549	11.4	561	11.1	**552**	**11.3**	506	12.4	499	12.5	**506**	**12.4**
473.astar	**557**	**12.6**	555	12.6	557	12.6	**506**	**13.9**	508	13.8	505	13.9
483.xalancbmk	**349**	**19.7**	350	19.7	349	19.8	354	19.5	355	19.4	**355**	**19.5**

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 SC816S-R700 case,
To ensure system stability, a 500W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]
Product description located as of http://www.supermicro.com/products/motherboard/Xeon1333/5000X/X7DA8.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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