SPEC® CINT2006 Result

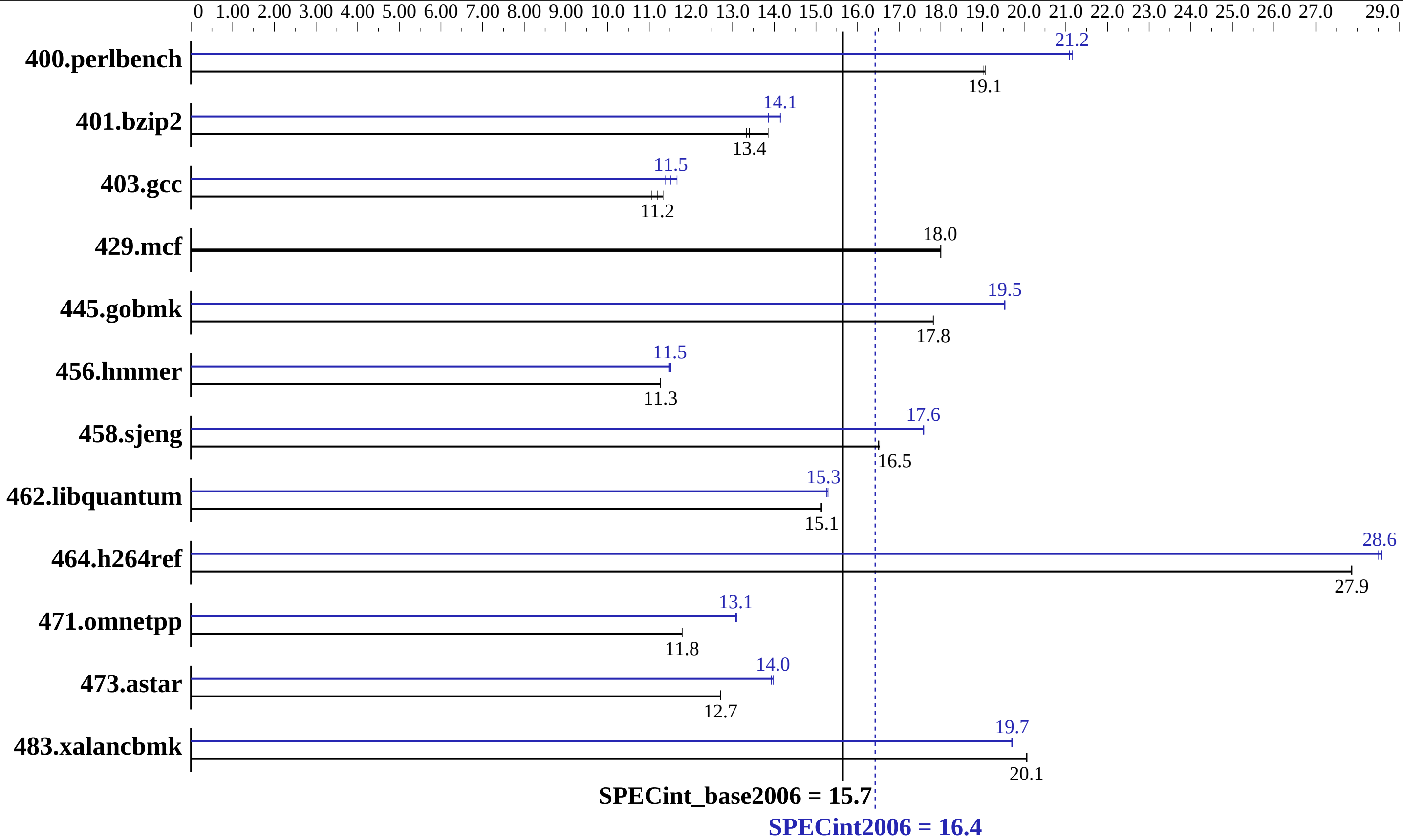
Supermicro Motherboard X7DB3

SPECint®2006 = 16.4

SPECint_base2006 = 15.7

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:	8 GB (8 X 1GB ECC PC2-5300, CL5, FBDIMM)
Disk Subsystem:	WD2500YS-01SHB1 250GB SATA II, 7200RPM, 4 * ST316081 160GB SATA RAID-10
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 from http://www.microquill.com/

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Results Table

	Base						Peak					
Benchmark	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**
400.perlbench	513	19.0	513	19.1	**513**	**19.1**	**462**	**21.2**	463	21.1	462	21.2
401.bzip2	**720**	**13.4**	724	13.3	697	13.9	**682**	**14.1**	696	13.9	682	14.2
403.gcc	**719**	**11.2**	711	11.3	728	11.1	690	11.7	**699**	**11.5**	707	11.4
429.mcf	507	18.0	**507**	**18.0**	507	18.0	507	18.0	**507**	**18.0**	507	18.0
445.gobmk	589	17.8	589	17.8	**589**	**17.8**	**537**	**19.5**	537	19.5	537	19.5
456.hmmer	828	11.3	828	11.3	**828**	**11.3**	**812**	**11.5**	814	11.5	810	11.5
458.sjeng	**733**	**16.5**	733	16.5	732	16.5	**688**	**17.6**	688	17.6	689	17.6
462.libquantum	**1369**	**15.1**	1368	15.1	1371	15.1	**1355**	**15.3**	1358	15.3	1355	15.3
464.h264ref	794	27.9	**794**	**27.9**	794	27.9	**774**	**28.6**	777	28.5	774	28.6
471.omnetpp	**530**	**11.8**	530	11.8	530	11.8	477	13.1	478	13.1	**478**	**13.1**
473.astar	552	12.7	**552**	**12.7**	552	12.7	502	14.0	**502**	**14.0**	504	13.9
483.xalancbmk	344	20.1	**344**	**20.1**	344	20.1	350	19.7	**350**	**19.7**	350	19.7

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-825TQ-R700LPV 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/Xeon1333/5000P/X7DB3.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`

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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`

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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

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

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