



SPEC® CINT2006 Result

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Supermicro Motherboard X7DB8

SPECint®_rate2006 = 90.9

SPECint_rate_base2006 = 83.7

CPU2006 license: 001176

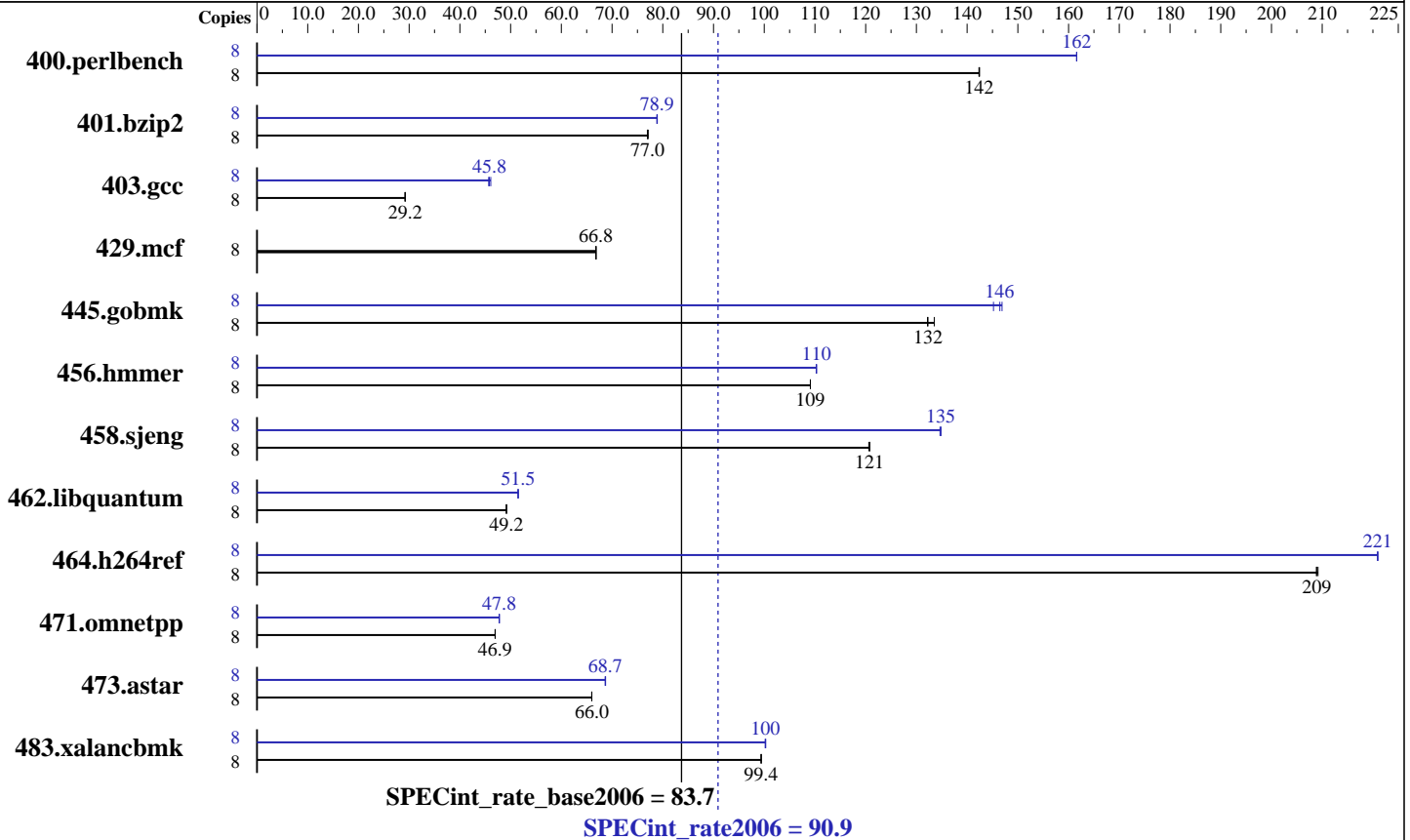
Test sponsor: Supermicro

Tested by: Supermicro

Test date: Jun-2007

Hardware Availability: May-2007

Software Availability: Apr-2007



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: 2.67GHz 1333MHz System Bus
 CPU MHz: 2667
 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: Seagate ST3750640AS 750GB SATA II, 7200RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise Edition W/ SP1
 Compiler: Intel C++ Compiler for IA32 version 10.0
 Build 20070426 Package ID: W_CC_P_10.0.025
 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: None
 SmartHeap Library Version 8.0 from
<http://www.microquill.com/>



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Results Table

Benchmark	Base						Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	549	142	549	142	549	142	8	484	162	484	162	484	162
401.bzip2	8	1001	77.1	1003	77.0	1002	77.0	8	979	78.8	979	78.9	978	78.9
403.gcc	8	2207	29.2	2203	29.2	2205	29.2	8	1406	45.8	1397	46.1	1410	45.7
429.mcf	8	1092	66.8	1091	66.9	1092	66.8	8	1092	66.8	1091	66.9	1092	66.8
445.gobmk	8	635	132	634	132	629	134	8	573	146	578	145	571	147
456.hammer	8	684	109	684	109	684	109	8	677	110	677	110	677	110
458.sjeng	8	802	121	801	121	803	121	8	718	135	719	135	718	135
462.libquantum	8	3370	49.2	3371	49.2	3371	49.2	8	3222	51.4	3217	51.5	3219	51.5
464.h264ref	8	847	209	848	209	846	209	8	801	221	801	221	801	221
471.omnetpp	8	1065	47.0	1065	46.9	1065	46.9	8	1047	47.8	1047	47.8	1047	47.8
473.astar	8	851	66.0	851	66.0	851	66.0	8	817	68.7	818	68.6	818	68.7
483.xalancbmk	8	555	99.4	555	99.4	555	99.4	8	550	100	551	100	551	100

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-825S2-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/X7DB8.cfm>
The system bus runs at 1333 MHz
submit was used to bind processes to cores

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 -Qansi-alias
-Qprefetch /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
-link /FORCE:MULTIPLE

429.mcf: basepeak = yes

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Peak Optimization Flags (Continued)

```

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo
           -Qprec_div- -Qansi-alias /F512000000
           -link /FORCE:MULTIPLE

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
           -Qansi-alias /F512000000 shlw32m.lib
           -link /FORCE:MULTIPLE

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
           /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

462.libquantum: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
                -Ob0 -Qprefetch -Qopt-streaming-stores:always /F512000000
                shlw32m.lib -link /FORCE:MULTIPLE

464.h264ref: Same as 456.hmmer

C++ benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

```

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-ic10-ia32-intel64-linux-flags.20090714.18.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.18.xml>

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