SPEC® CINT2006 Result

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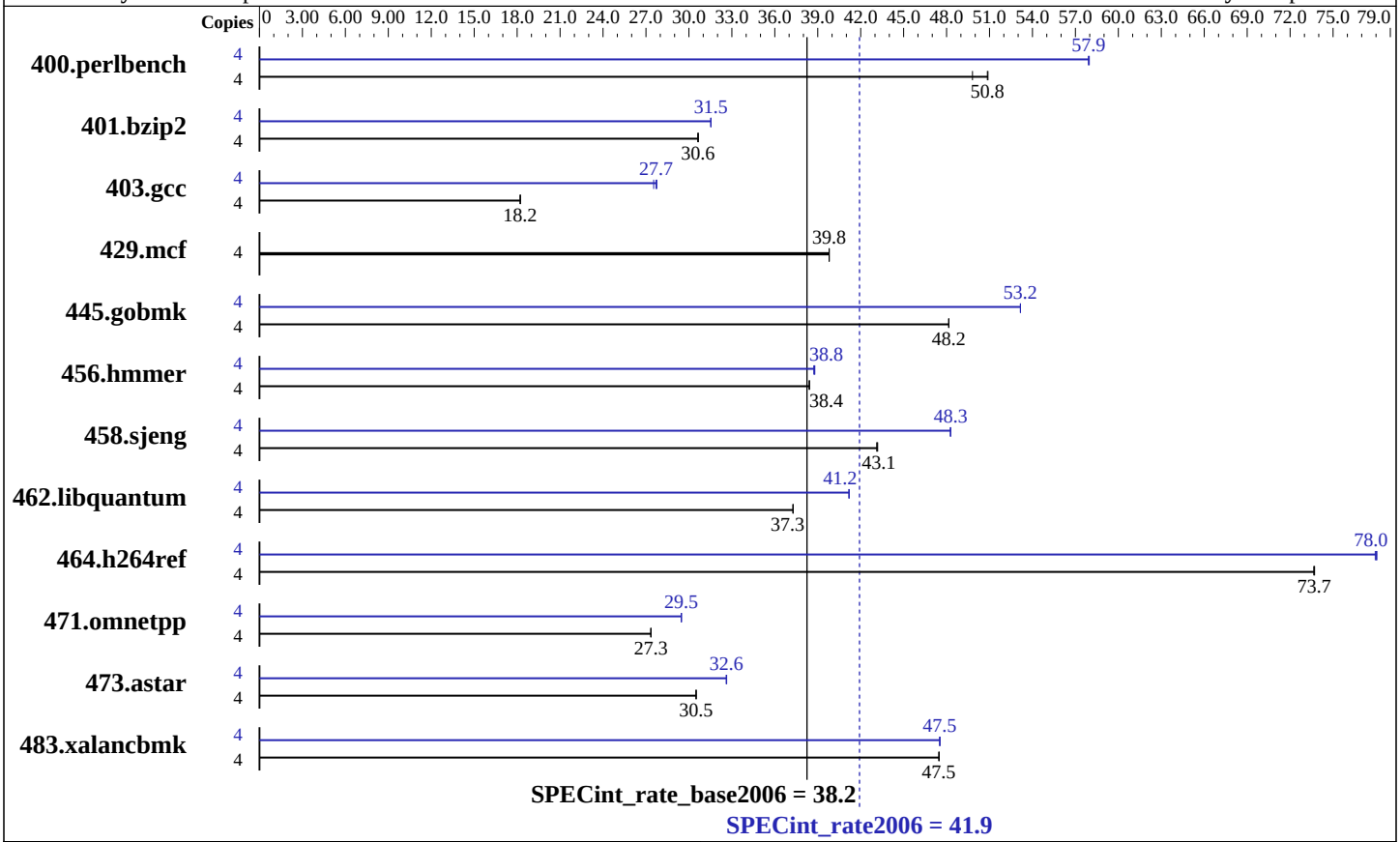
Supermicro
Motherboard X7DB8

SPECint®_rate2006 = 41.9

SPECint_rate_base2006 = 38.2

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 5120
CPU Characteristics:	1.86GHz 1066MHz System Bus
CPU MHz:	1860
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:	16 GB (8 X 2GB ECC PC2-5300, CL5, FBDIMM)
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 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:	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	4	785	49.8	**769**	**50.8**	768	50.9	4	675	57.9	**675**	**57.9**	674	58.0
401.bzip2	4	**1260**	**30.6**	1261	30.6	1259	30.7	4	1224	31.5	**1224**	**31.5**	1224	31.5
403.gcc	4	**1767**	**18.2**	1769	18.2	1766	18.2	4	1169	27.5	1160	27.8	**1162**	**27.7**
429.mcf	4	917	39.8	**917**	**39.8**	917	39.8	4	917	39.8	**917**	**39.8**	917	39.8
445.gobmk	4	871	48.2	871	48.2	**871**	**48.2**	4	789	53.2	**789**	**53.2**	789	53.2
456.hmmer	4	972	38.4	**972**	**38.4**	971	38.4	4	**962**	**38.8**	964	38.7	962	38.8
458.sjeng	4	**1122**	**43.1**	1121	43.2	1122	43.1	4	1002	48.3	**1003**	**48.3**	1003	48.3
462.libquantum	4	2223	37.3	2224	37.3	**2223**	**37.3**	4	2012	41.2	**2012**	**41.2**	2012	41.2
464.h264ref	4	1201	73.7	**1201**	**73.7**	1202	73.7	4	1136	77.9	**1135**	**78.0**	1134	78.1
471.omnetpp	4	914	27.3	**914**	**27.3**	914	27.4	4	**848**	**29.5**	849	29.5	848	29.5
473.astar	4	**921**	**30.5**	920	30.5	921	30.5	4	860	32.6	**861**	**32.6**	861	32.6
483.xalancbmk	4	582	47.5	581	47.5	**581**	**47.5**	4	581	47.5	581	47.5	**581**	**47.5**

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 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 1066 MHz
"start /b /wait /affinity" used to bind processes to CPUs.
```

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 -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`

Continued on next page

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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