SPEC® CINT2006 Result

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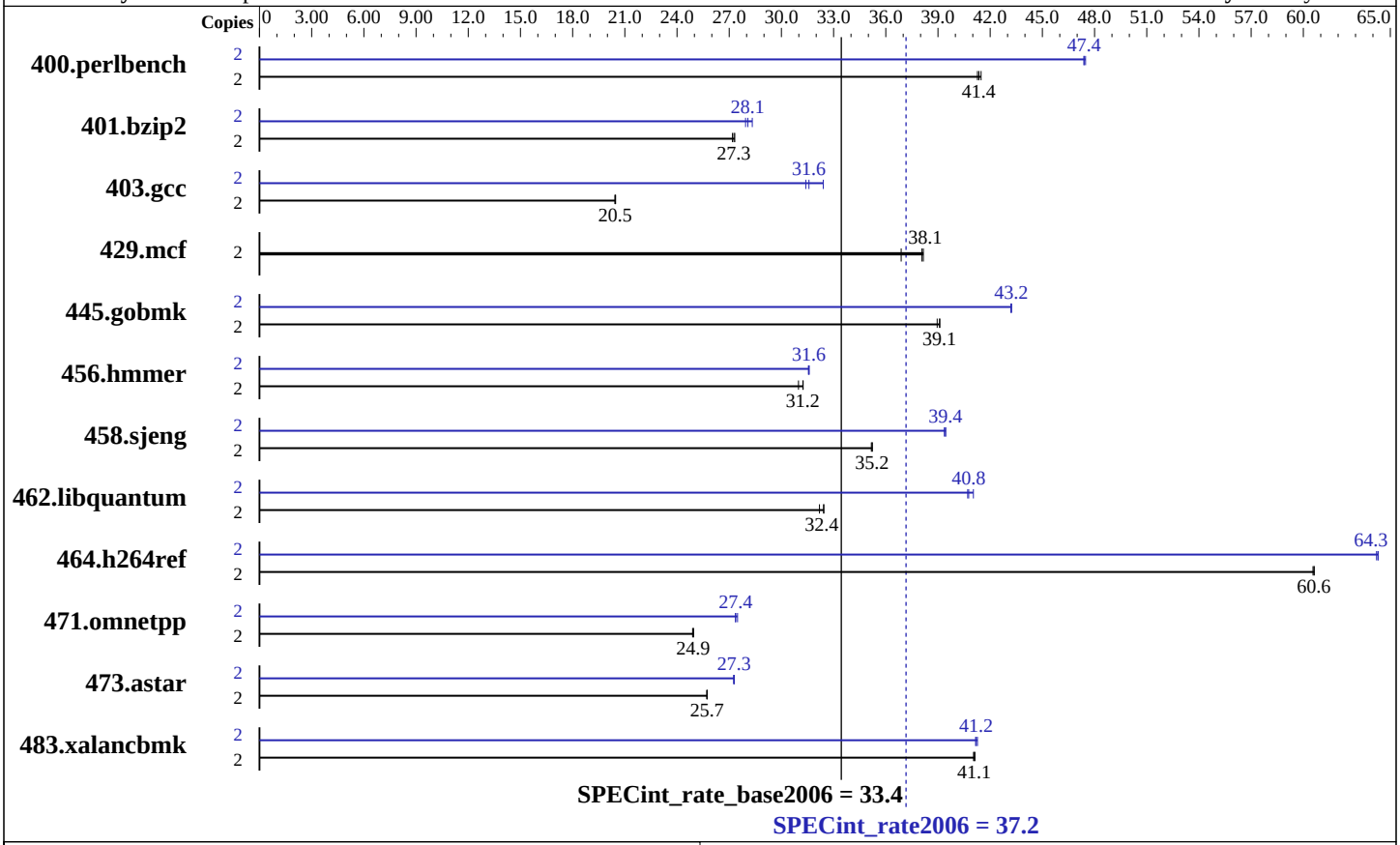
Supermicro Motherboard C2SBA+

SPECint®_rate2006 = 37.2

SPECint_rate_base2006 = 33.4

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

Test date: Sep-2007
Hardware Availability: Jul-2007
Software Availability: May-2007



Hardware

CPU Name:	Intel Core 2 Duo E6850
CPU Characteristics:	3.00GHz, 1333MHz Bus
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
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:	8 GB (4 X 2GB PC2-6400, CL5)
Disk Subsystem:	74GB SATA, 7200RPM
Other Hardware:	None

Software

Operating System:	Windows Vista Ultimate (32-bit)
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	2	**473**	**41.4**	471	41.5	473	41.3	2	**412**	**47.4**	412	47.5	412	47.4
401.bzip2	2	**708**	**27.3**	706	27.3	710	27.2	2	**688**	**28.1**	681	28.3	691	27.9
403.gcc	2	787	20.5	**787**	**20.5**	788	20.4	2	513	31.4	497	32.4	**510**	**31.6**
429.mcf	2	478	38.2	**479**	**38.1**	495	36.9	2	478	38.2	**479**	**38.1**	495	36.9
445.gobmk	2	536	39.1	**537**	**39.1**	539	39.0	2	486	43.2	485	43.2	**486**	**43.2**
456.hmmer	2	**597**	**31.2**	597	31.2	602	31.0	2	**591**	**31.6**	591	31.6	591	31.6
458.sjeng	2	687	35.2	**687**	**35.2**	688	35.2	2	614	39.4	**614**	**39.4**	615	39.4
462.libquantum	2	1287	32.2	**1278**	**32.4**	1277	32.4	2	**1017**	**40.8**	1018	40.7	1010	41.0
464.h264ref	2	**730**	**60.6**	730	60.6	731	60.6	2	689	64.2	**688**	**64.3**	688	64.3
471.omnetpp	2	501	24.9	502	24.9	**501**	**24.9**	2	455	27.5	**457**	**27.4**	457	27.4
473.astar	2	546	25.7	**546**	**25.7**	546	25.7	2	515	27.3	514	27.3	**515**	**27.3**
483.xalancbmk	2	**336**	**41.1**	336	41.0	336	41.1	2	335	41.2	334	41.3	**335**	**41.2**

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 case CSE-733i-450
To ensure system stability, a 420W (minimum) ATX power supply [4-pin +12V AND (20 or 24-pin)]
is required.
Product description located at:
http://www.supermicro.com/products/motherboard/Core2Duo/G33/C2SBA+II.cfm
The system bus runs at 1333 MHz
BIOS Setting : Default
```

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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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 13:56:08 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 2 October 2007.