SPEC® CINT2006 Result

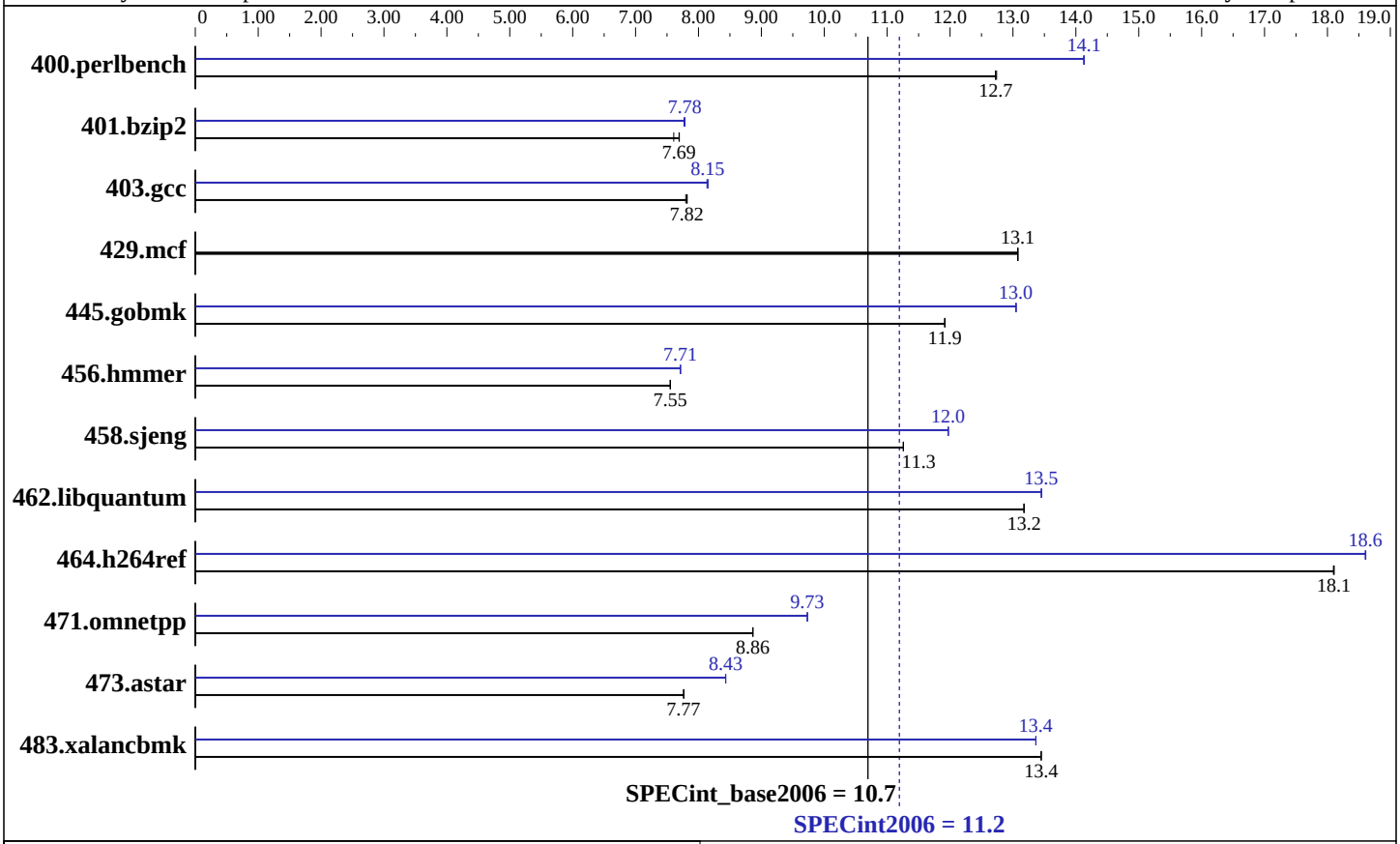
Supermicro
Motherboard PDSBA+

SPECint®2006 = 11.2

SPECint_base2006 = 10.7

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

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



Hardware

CPU Name:	Intel Core 2 Duo E4300
CPU Characteristics:	1.8GHz, 800MHz bus
CPU MHz:	1800
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:	2 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	2 GB (2X 1GB ECC, CL4, 533MHz, UnBuffer)
Disk Subsystem:	150GB SATA, 7200RPM
Other Hardware:	None

Software

Operating System:	Windows XP Professional w/ SP2
Compiler:	Intel C++ Compiler for IA32 version 9.1 Build no 20070322Z
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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	**768**	**12.7**	767	12.7	768	12.7	692	14.1	**691**	**14.1**	691	14.1
401.bzip2	1269	7.61	1254	7.70	**1255**	**7.69**	1240	7.78	**1240**	**7.78**	1242	7.77
403.gcc	1032	7.80	1029	7.82	**1030**	**7.82**	**988**	**8.15**	987	8.15	990	8.14
429.mcf	**698**	**13.1**	697	13.1	698	13.1	**698**	**13.1**	697	13.1	698	13.1
445.gobmk	**880**	**11.9**	881	11.9	880	11.9	804	13.1	**804**	**13.0**	804	13.0
456.hmmer	1235	7.55	**1235**	**7.55**	1235	7.55	1210	7.71	**1210**	**7.71**	1210	7.71
458.sjeng	1075	11.3	**1075**	**11.3**	1075	11.3	1011	12.0	1011	12.0	**1011**	**12.0**
462.libquantum	1573	13.2	**1572**	**13.2**	1572	13.2	1540	13.5	**1540**	**13.5**	1541	13.5
464.h264ref	1222	18.1	1223	18.1	**1222**	**18.1**	1189	18.6	1190	18.6	**1190**	**18.6**
471.omnetpp	**705**	**8.86**	705	8.86	705	8.87	**642**	**9.73**	642	9.73	642	9.73
473.astar	904	7.77	904	7.77	**904**	**7.77**	832	8.43	832	8.43	**832**	**8.43**
483.xalancbmk	**513**	**13.4**	513	13.4	513	13.4	516	13.4	**516**	**13.4**	516	13.4

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 SC733T-645 case,
To ensure system stability, a 450W (minimum) ATX power supply [4-pin +12V AND (20 or 24-pin)] is required.
Product description located as of http://www.supermicro.com/products/motherboard/Core2Duo/965/PDSBA+.cfm
The system bus runs at 800 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.

Tested with SPEC CPU2006 v1.0.1.
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