SPEC® CINT2006 Result
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Supermicro

Motherboard X8DAH+ (Intel Xeon E5504, 2.00 GHz)

SPECint®_rate2006 = 134

SPECint_rate_base2006 = 125

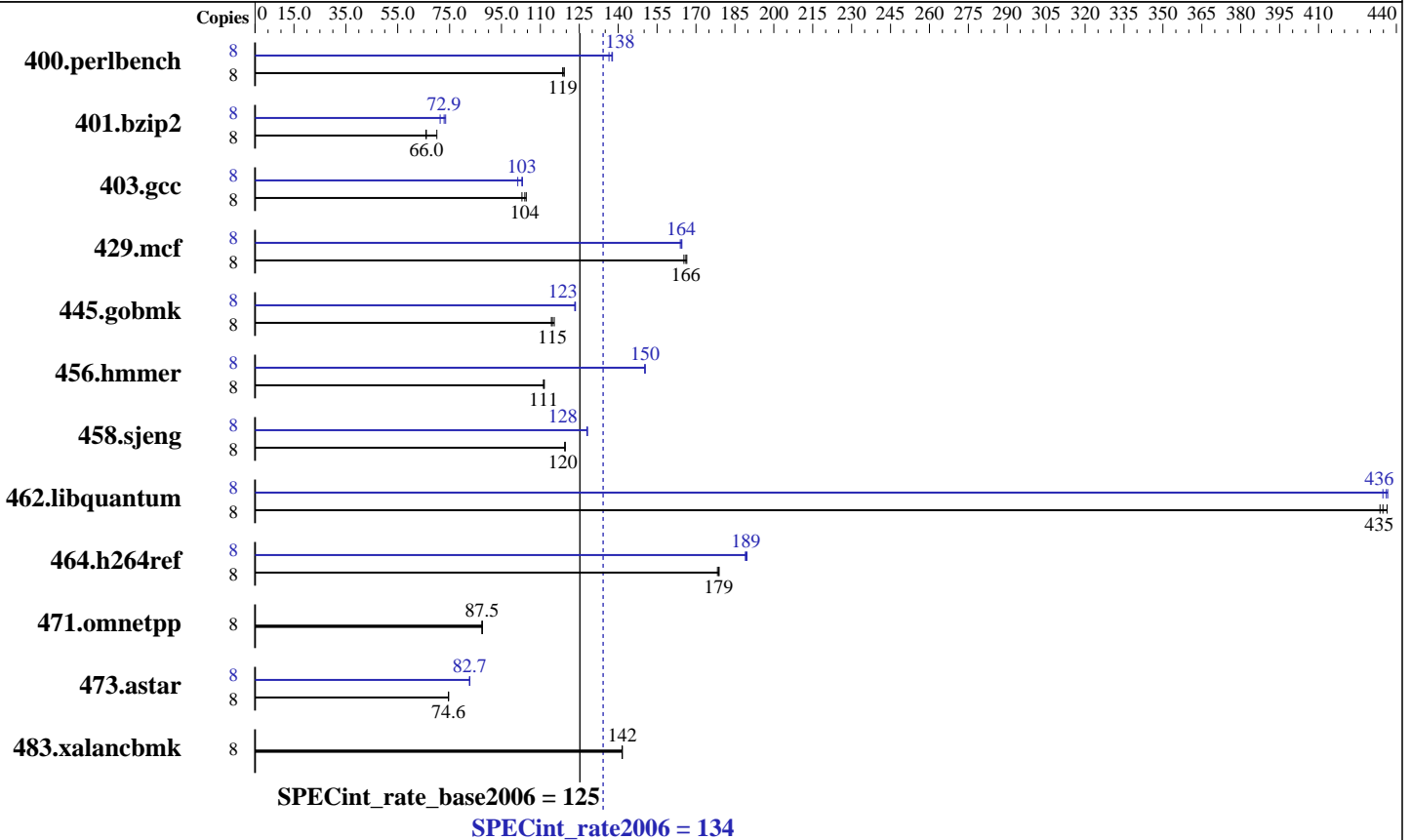**CPU2006 license:** 001176　　　　　　　　　　　　　　　　　　　　　　　**Test date:** Aug-2009
Test sponsor: Supermicro　　　　　　　　　　　　　　　　　**Hardware Availability:** Mar-2009
Tested by: Supermicro　　　　　　　　　　　　　　　　　　　**Software Availability:** Feb-2009

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Benchmark	Copies	Base	Peak
400.perlbench	8	119	138
401.bzip2	8	66.0	72.9
403.gcc	8	104	103
429.mcf	8	166	164
445.gobmk	8	115	123
456.hmmer	8	111	150
458.sjeng	8	120	128
462.libquantum	8	435	436
464.h264ref	8	179	189
471.omnetpp	8	87.5	
473.astar	8	74.6	82.7
483.xalancbmk	8	142	

Hardware

CPU Name:	Intel Xeon E5504
CPU Characteristics:	
CPU MHz:	2000
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:	256 KB I+D on chip per core
L3 Cache:	4 MB I+D on chip per chip
Other Cache:	None
Memory:	12 GB (6 x 2 GB DDR3-1066 RDIMM, running at 800MHz)
Disk Subsystem:	250 GB SATA II, 7200 RPM
Other Hardware:	None

Software

Operating System:	Red Hat 5 Update 3 x86_64, Kernel 2.6.18-128.el5
Compiler:	Intel C++ Compiler 11.0 for Linux Build 20090131 Package ID: l_cproc_p_11.0.080
Auto Parallel:	No
File System:	ext3
System State:	Run level 2 (multi-user)
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	Microquill SmartHeap V8.1 Binutils 2.18.50.0.7.20080502

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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	659	119	656	119	**656**	**119**	8	573	136	**568**	**138**	567	138
401.bzip2	8	**1169**	**66.0**	1172	65.9	1101	70.1	8	**1059**	**72.9**	1051	73.5	1082	71.4
403.gcc	8	626	103	616	105	**619**	**104**	8	636	101	**626**	**103**	625	103
429.mcf	8	441	165	**439**	**166**	438	166	8	445	164	443	165	**444**	**164**
445.gobmk	8	**732**	**115**	735	114	728	115	8	679	124	**680**	**123**	681	123
456.hmmer	8	669	112	**671**	**111**	671	111	8	497	150	**496**	**150**	496	150
458.sjeng	8	810	120	**810**	**120**	811	119	8	**756**	**128**	756	128	756	128
462.libquantum	8	382	434	380	436	**381**	**435**	8	381	435	**380**	**436**	380	437
464.h264ref	8	990	179	**990**	**179**	993	178	8	937	189	**935**	**189**	933	190
471.omnetpp	8	571	87.6	571	87.5	**571**	**87.5**	8	571	87.6	571	87.5	**571**	**87.5**
473.astar	8	**753**	**74.6**	753	74.6	753	74.6	8	679	82.7	678	82.8	**679**	**82.7**
483.xalancbmk	8	**390**	**142**	390	142	390	142	8	**390**	**142**	390	142	390	142

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Submit Notes

```
    The config file option 'submit' was used.
     numactl was used to bind processes to cores and its local memory.
     Details may be found in the config file.
```

General Notes

```
    System was tested in an open environment.
    To ensure system stability, a 550W (minimum) ATX power supply
    [ 4-pin (+12V), 8-pin (+12V) and 24-pin are required ]

    Product description can be obtained at:
    http://www.supermicro.com/products/motherboard/QPI/5500/X8DAH+.cfm
```

Base Compiler Invocation

C benchmarks:
```
    icc
```

C++ benchmarks:
```
    icpc
```

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Base Portability Flags

```
400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX
```

Base Optimization Flags

C benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -static -inline-calloc
-opt-malloc-options=3 -opt-prefetch
```

C++ benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/spec/cpu2006.1.1/lib -lsmartheap
```

Base Other Flags

C benchmarks:

```
403.gcc: -Dalloca=_alloca
```

Peak Compiler Invocation

C benchmarks (except as noted below):
```
icc
```

```
401.bzip2: /opt/intel/Compiler/11.0/080/bin/intel64/icc
```

```
456.hmmer: /opt/intel/Compiler/11.0/080/bin/intel64/icc
```

```
458.sjeng: /opt/intel/Compiler/11.0/080/bin/intel64/icc
```

C++ benchmarks (except as noted below):
```
icpc
```

```
473.astar: /opt/intel/Compiler/11.0/080/bin/intel64/icpc
```

Peak Portability Flags

```
400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
```

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Peak Portability Flags (Continued)

```
        458.sjeng: -DSPEC_CPU_LP64
    462.libquantum: -DSPEC_CPU_LINUX
        473.astar: -DSPEC_CPU_LP64
    483.xalancbmk: -DSPEC_CPU_LINUX
```

Peak Optimization Flags

C benchmarks:

```
    400.perlbench: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
                   -O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
                   -prof-use(pass 2) -ansi-alias -opt-prefetch

       401.bzip2: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
                   -O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
                   -prof-use(pass 2) -opt-prefetch -ansi-alias -auto-ilp32

         403.gcc: -xSSE4.2 -ipo -O3 -no-prec-div -static -inline-calloc
                   -opt-malloc-options=3

         429.mcf: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
                   -O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
                   -prof-use(pass 2) -opt-prefetch

       445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2) -O2
                   -ipo -no-prec-div -ansi-alias

       456.hmmer: -xSSE4.2 -ipo -O3 -no-prec-div -static -unroll2
                   -ansi-alias -auto-ilp32

       458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
                   -O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
                   -prof-use(pass 2) -unroll4 -auto-ilp32

    462.libquantum: -xSSE4.2 -ipo -O3 -no-prec-div -static
                   -opt-malloc-options=3 -opt-prefetch

      464.h264ref: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
                   -O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
                   -prof-use(pass 2) -unroll2 -ansi-alias
```

C++ benchmarks:

```
      471.omnetpp: basepeak = yes

         473.astar: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
                   -O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
                   -ansi-alias -opt-ra-region-strategy=routine -auto-ilp32
                   -Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap64
```

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Peak Optimization Flags (Continued)

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/intel-platform.html
http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revG.20090917.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/intel-platform.xml
http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revG.20090917.xml

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

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