SPEC® CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Supermicro

Motherboard B8DTE (Intel Xeon E5520, 2.27 GHz)

SPECint®_rate2006 = 208

SPECint_rate_base2006 = 191

CPU2006 license: 001176	**Test date:** Jan-2010
Test sponsor: Supermicro	**Hardware Availability:** Jan-2010
Tested by: Supermicro	**Software Availability:** Oct-2009

Copies 0 20.0 50.0 80.0 110 130 150 170 190 210 230 250 270 290 310 330 350 370 390 410 430 450 470 490 510 530 550 570 590 630

- 400.perlbench: 16 → 190; 16 → 160
- 401.bzip2: 16 → 124; 16 → 117
- 403.gcc: 16 → 165; 16 → 165
- 429.mcf: 8 → 236; 16 → 213
- 445.gobmk: 16 → 202; 16 → 187
- 456.hmmer: 8 → 272; 16 → 196
- 458.sjeng: 16 → 190; 16 → 171
- 462.libquantum: 16 → 622
- 464.h264ref: 16 → 240; 16 → 239
- 471.omnetpp: 16 → 162; 16 → 148
- 473.astar: 16 → 136; 16 → 121
- 483.xalancbmk: 16 → 211

SPECint_rate_base2006 = 191

SPECint_rate2006 = 208

Hardware

CPU Name:	Intel Xeon E5520
CPU Characteristics:	Intel Turbo Boost Technology up to 2.53 GHz
CPU MHz:	2270
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip, 2 threads/core
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:	8 MB I+D on chip per chip
Other Cache:	None
Memory:	24 GB (6 x 4 GB DDR3-1333 RDIMM, running at 1066 MHz, CL7)
Disk Subsystem:	1 x 300 GB SATA II, 7200 RPM
Other Hardware:	None

Software

Operating System:	SUSE Linux Enterprise Server 11 (x86_64) Kernel 2.6.27.19-5-default
Compiler:	Intel C++ Professional Compiler for IA32 and Intel 64, Version 11.1 Build 20091012 Package ID: l_cproc_p_11.1.059
Auto Parallel:	No
File System:	ReiserFS
System State:	Run level 3 (multi-user)
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	Microquill SmartHeap V8.1 Binutils 2.18.50.0.7.20080502

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Supermicro

Motherboard B8DTE (Intel Xeon E5520, 2.27 GHz)

$SPECint\_rate2006 =$ 208

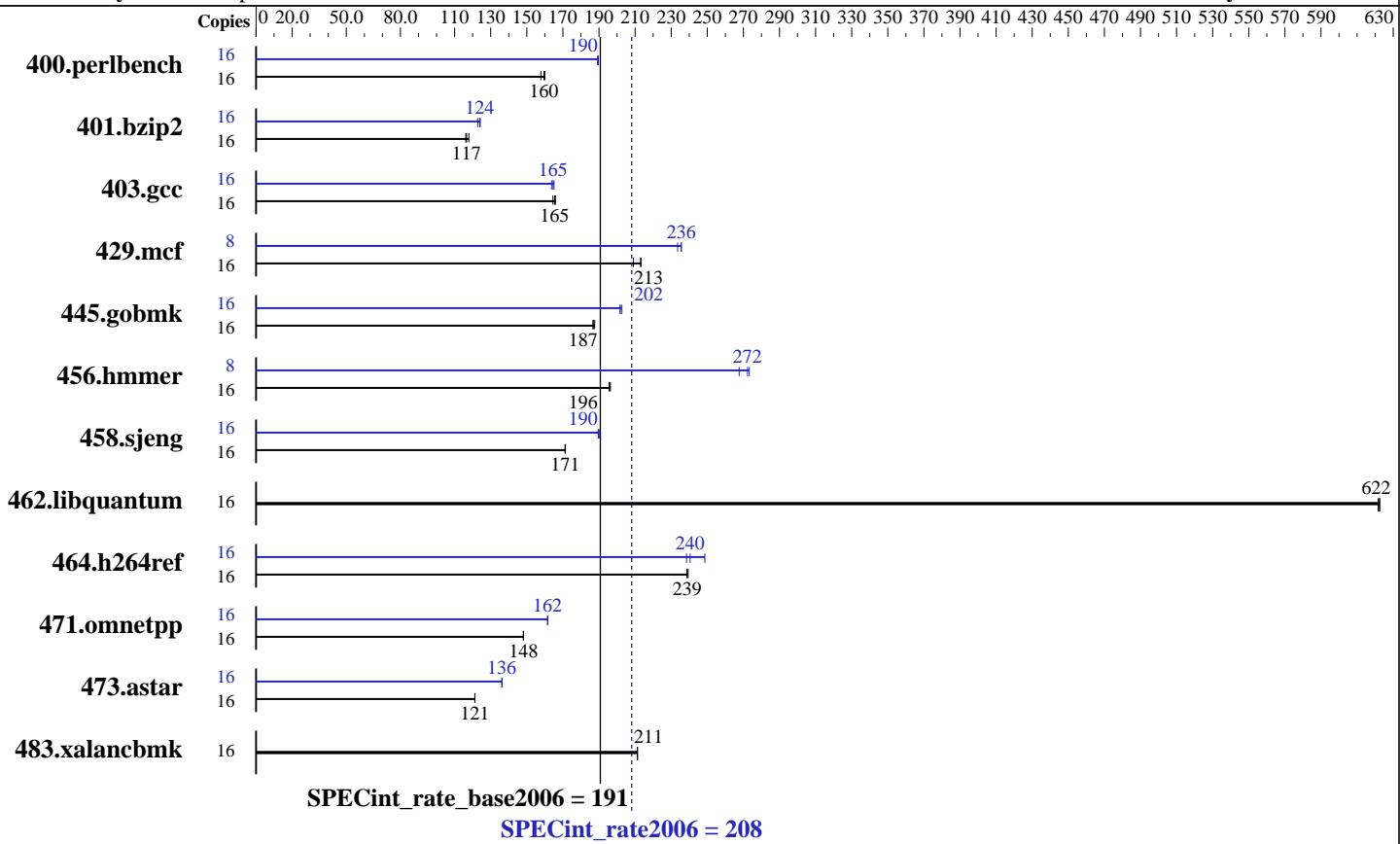$SPECint\_rate\_base2006 =$ 191

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

Test date: Jan-2010
Hardware Availability: Jan-2010
Software Availability: Oct-2009

Results Table

Benchmark	Base						Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	16	990	158	**980**	**160**	977	160	16	824	190	826	189	**825**	**190**
401.bzip2	16	1329	116	1310	118	**1324**	**117**	16	1257	123	1243	124	**1246**	**124**
403.gcc	16	**779**	**165**	783	164	777	166	16	**783**	**165**	787	164	780	165
429.mcf	16	698	209	**685**	**213**	684	213	8	312	234	**310**	**236**	310	236
445.gobmk	16	895	188	899	187	**899**	**187**	16	832	202	828	203	**832**	**202**
456.hmmer	16	761	196	**762**	**196**	763	196	8	**274**	**272**	279	268	273	273
458.sjeng	16	**1130**	**171**	1130	171	1131	171	16	1018	190	**1021**	**190**	1021	190
462.libquantum	16	533	622	**533**	**622**	533	623	16	533	622	**533**	**622**	533	623
464.h264ref	16	**1483**	**239**	1479	239	1484	239	16	1424	249	1485	239	**1472**	**240**
471.omnetpp	16	675	148	**675**	**148**	675	148	16	**619**	**162**	619	162	619	162
473.astar	16	926	121	927	121	**926**	**121**	16	824	136	**825**	**136**	825	136
483.xalancbmk	16	523	211	**523**	**211**	522	211	16	523	211	**523**	**211**	522	211

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 copies to the cores
```

General Notes

```
System can be built with CSE-714M-230B. To ensure system stability,
enclosure SBE-714E-D28 with 2 1400 W power supplies with full fan speed
are needed.

Product description can be obtained at:
http://www.supermicro.com/servers/blade/module/SBI-7426T-T3.cfm
```

Base Compiler Invocation

C benchmarks:
```
icc -m32
```

C++ benchmarks:
```
icpc -m32
```

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Supermicro

Motherboard B8DTE (Intel Xeon E5520, 2.27 GHz)

SPECint_rate2006 = 208

SPECint_rate_base2006 = 191

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

Test date: Jan-2010
Hardware Availability: Jan-2010
Software Availability: Oct-2009

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 -opt-prefetch
```

C++ benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-32bit -lsmartheap
```

Base Other Flags

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

Peak Compiler Invocation

C benchmarks (except as noted below):
```
icc -m32
```

```
401.bzip2: icc -m64
```

```
456.hmmer: icc -m64
```

```
458.sjeng: icc -m64
```

C++ benchmarks (except as noted below):
```
icpc -m32
```

```
473.astar: icpc -m64
```

Peak Portability Flags

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

Supermicro

Motherboard B8DTE (Intel Xeon E5520, 2.27 GHz)

SPECint_rate2006 =　　208

SPECint_rate_base2006 =　191

CPU2006 license: 001176	**Test date:** Jan-2010
Test sponsor: Supermicro	**Hardware Availability:** Jan-2010
Tested by: Supermicro	**Software Availability:** Oct-2009

Peak Portability Flags (Continued)

```
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

    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

      429.mcf: -xSSE4.2 -ipo -O3 -no-prec-div -static -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: basepeak = yes

   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: -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=block -Wl,-z,muldefs
               -L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-32bit -lsmartheap

     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 -Wl,-z,muldefs
               -L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-64bit -lsmartheap64
```

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Supermicro

Motherboard B8DTE (Intel Xeon E5520, 2.27 GHz)

SPECint_rate2006 =   208

SPECint_rate_base2006 = 191

CPU2006 license: 001176	**Test date:** Jan-2010
Test sponsor: Supermicro	**Hardware Availability:** Jan-2010
Tested by: Supermicro	**Software Availability:** Oct-2009

Peak Optimization Flags (Continued)

483.xalancbmk: basepeak = yes

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-ic11.1-int-linux64-revE.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic11.1-int-linux64-revE.xml

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

Tested with SPEC CPU2006 v1.1.
Report generated on Wed Jul 23 06:23:03 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 23 February 2010.