



# SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Supermicro Motherboard X8DT6-F

**SPECint®2006 = 19.4**  
**SPECint\_base2006 = 17.4**

CPU2006 license: 001176

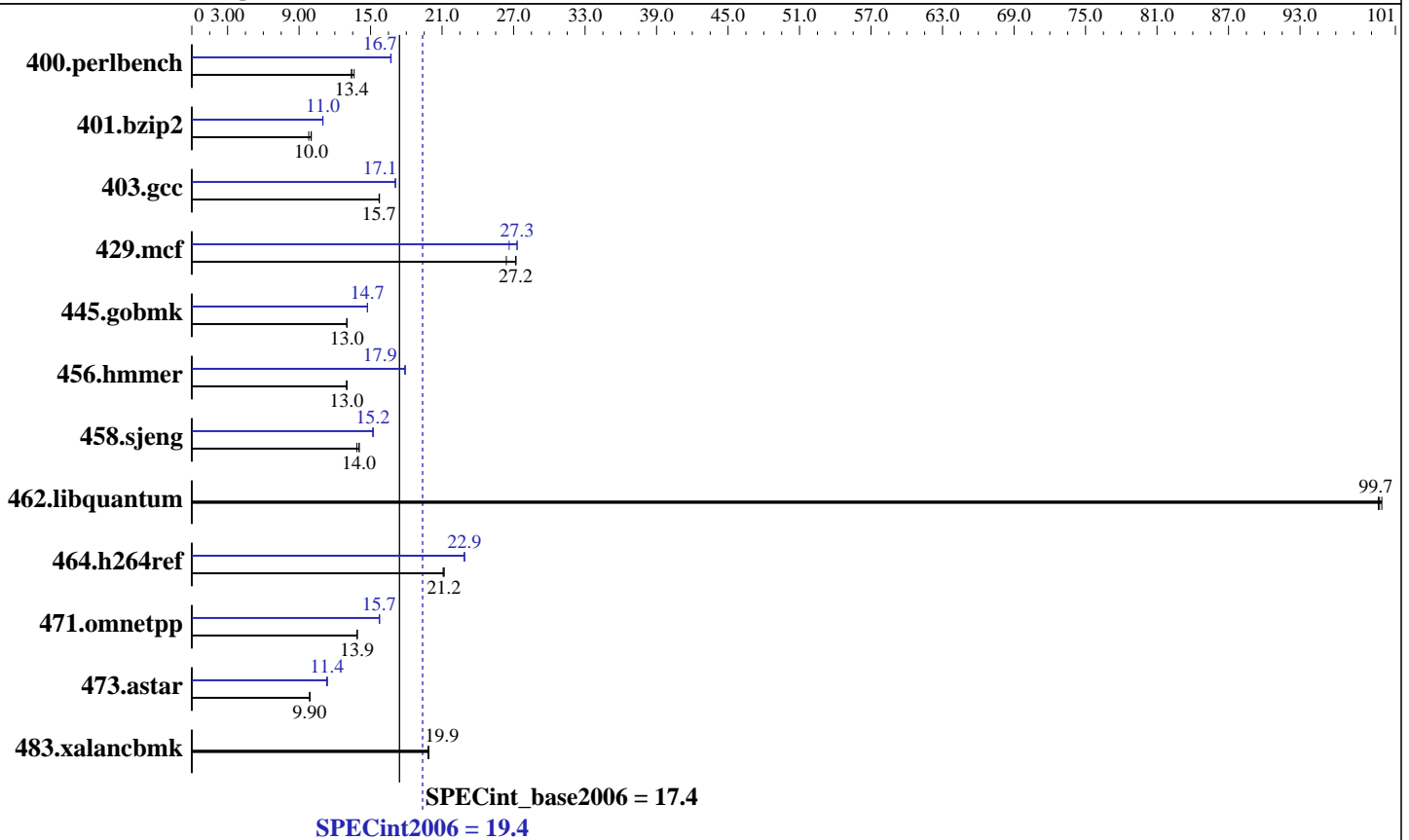
Test sponsor: Supermicro

Tested by: Supermicro

Test date: Dec-2009

Hardware Availability: Aug-2009

Software Availability: Feb-2009



### Hardware

CPU Name: Intel Xeon E5502  
 CPU Characteristics:  
 CPU MHz: 1867  
 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: 256 KB I+D on chip per core  
 L3 Cache: 4 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 24 GB (6 x 4 GB DDR3-1333 RDIMM,CL9 running at 800MHz)  
 Disk Subsystem: 1 x 750 GB SATA II, 7200 RPM  
 Other Hardware: None

### Software

Operating System: SUSE Linux Enterprise Server 10 (x86\_64) SP2, Kernel 2.6.16.60-0.21-smp  
 Compiler: Intel C++ Compiler Professional 11.0 for Linux Build 20090131 Package ID: l\_cproc\_p\_11.0.080  
 Auto Parallel: Yes  
 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 X8DT6-F

SPECint2006 = **19.4**  
SPECint\_base2006 = **17.4**

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

Test date: Dec-2009  
Hardware Availability: Aug-2009  
Software Availability: Feb-2009

### Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	729	13.4	<b>728</b>	<b>13.4</b>	717	13.6	585	16.7	<b>585</b>	<b>16.7</b>	584	16.7
401.bzip2	983	9.81	963	10.0	<b>963</b>	<b>10.0</b>	877	11.0	878	11.0	<b>877</b>	<b>11.0</b>
403.gcc	<b>512</b>	<b>15.7</b>	511	15.7	512	15.7	471	17.1	471	17.1	<b>471</b>	<b>17.1</b>
429.mcf	346	26.4	<b>336</b>	<b>27.2</b>	335	27.2	342	26.6	334	27.3	<b>334</b>	<b>27.3</b>
445.gobmk	806	13.0	806	13.0	<b>806</b>	<b>13.0</b>	712	14.7	711	14.7	<b>712</b>	<b>14.7</b>
456.hammer	718	13.0	717	13.0	<b>718</b>	<b>13.0</b>	522	17.9	521	17.9	<b>521</b>	<b>17.9</b>
458.sjeng	873	13.9	861	14.0	<b>862</b>	<b>14.0</b>	<b>796</b>	<b>15.2</b>	796	15.2	795	15.2
462.libquantum	208	99.6	<b>208</b>	<b>99.7</b>	207	99.9	208	99.6	<b>208</b>	<b>99.7</b>	207	99.9
464.h264ref	1046	21.2	1049	21.1	<b>1046</b>	<b>21.2</b>	968	22.9	<b>967</b>	<b>22.9</b>	967	22.9
471.omnetpp	451	13.9	450	13.9	<b>451</b>	<b>13.9</b>	396	15.8	<b>397</b>	<b>15.7</b>	397	15.7
473.astar	710	9.89	<b>709</b>	<b>9.90</b>	709	9.91	621	11.3	617	11.4	<b>618</b>	<b>11.4</b>
483.xalancbmk	347	19.9	<b>347</b>	<b>19.9</b>	348	19.8	347	19.9	<b>347</b>	<b>19.9</b>	348	19.8

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

### Platform Notes

Default BIOS Settings

### General Notes

OMP\_NUM\_THREADS set to number of cores  
KMP\_AFFINITY set to granularity=fine,scatter  
<http://www.supermicro.com/products/motherboard/QPI/5500/X8DT6-F.cfm?IPMI=Y&SAS=Y>

### Base Compiler Invocation

C benchmarks:  
icc  
  
C++ benchmarks:  
icpc

### Base Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
462.libquantum: -DSPEC\_CPU\_LINUX  
483.xalancbmk: -DSPEC\_CPU\_LINUX



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

<b>Supermicro Motherboard X8DT6-F</b>	<b>SPECint2006 =</b>	<b>19.4</b>
	<b>SPECint_base2006 =</b>	<b>17.4</b>

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

**Test date:** Dec-2009  
**Hardware Availability:** Aug-2009  
**Software Availability:** Feb-2009

## Base Optimization Flags

C benchmarks:

```
-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel  
-par-runtime-control -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
```

```
458.sjeng: -DSPEC_CPU_LP64
```

```
462.libquantum: -DSPEC_CPU_LINUX
```

```
473.astar: -DSPEC_CPU_LP64
```

```
483.xalancbmk: -DSPEC_CPU_LINUX
```



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

**Supermicro  
Motherboard X8DT6-F**

**SPECint2006 = 19.4**  
**SPECint\_base2006 = 17.4**

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

**Test date:** Dec-2009  
**Hardware Availability:** Aug-2009  
**Software Availability:** Feb-2009

## 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.bzp2: -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) -auto-ilp32 -opt-prefetch -ansi-alias

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

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/spec/cpu2006.1.1/lib -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 -auto-ilp32  
-Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap64

483.xalancbmk: basepeak = yes



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Supermicro  
Motherboard X8DT6-F

SPECint2006 = 19.4  
SPECint\_base2006 = 17.4

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

Test date: Dec-2009  
Hardware Availability: Aug-2009  
Software Availability: Feb-2009

## 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-ic11.0-int-linux64-revE.20100119.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revE.20100119.xml>

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.1.  
Report generated on Wed Jul 23 06:24:43 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 19 January 2010.