



SPEC® CINT2006 Result

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Intel Corporation

SPECint®2006 = 34.5

Supermicro X8DAI (Intel Xeon W3570, 3.2 GHz)

SPECint_base2006 = 32.5

CPU2006 license: 13

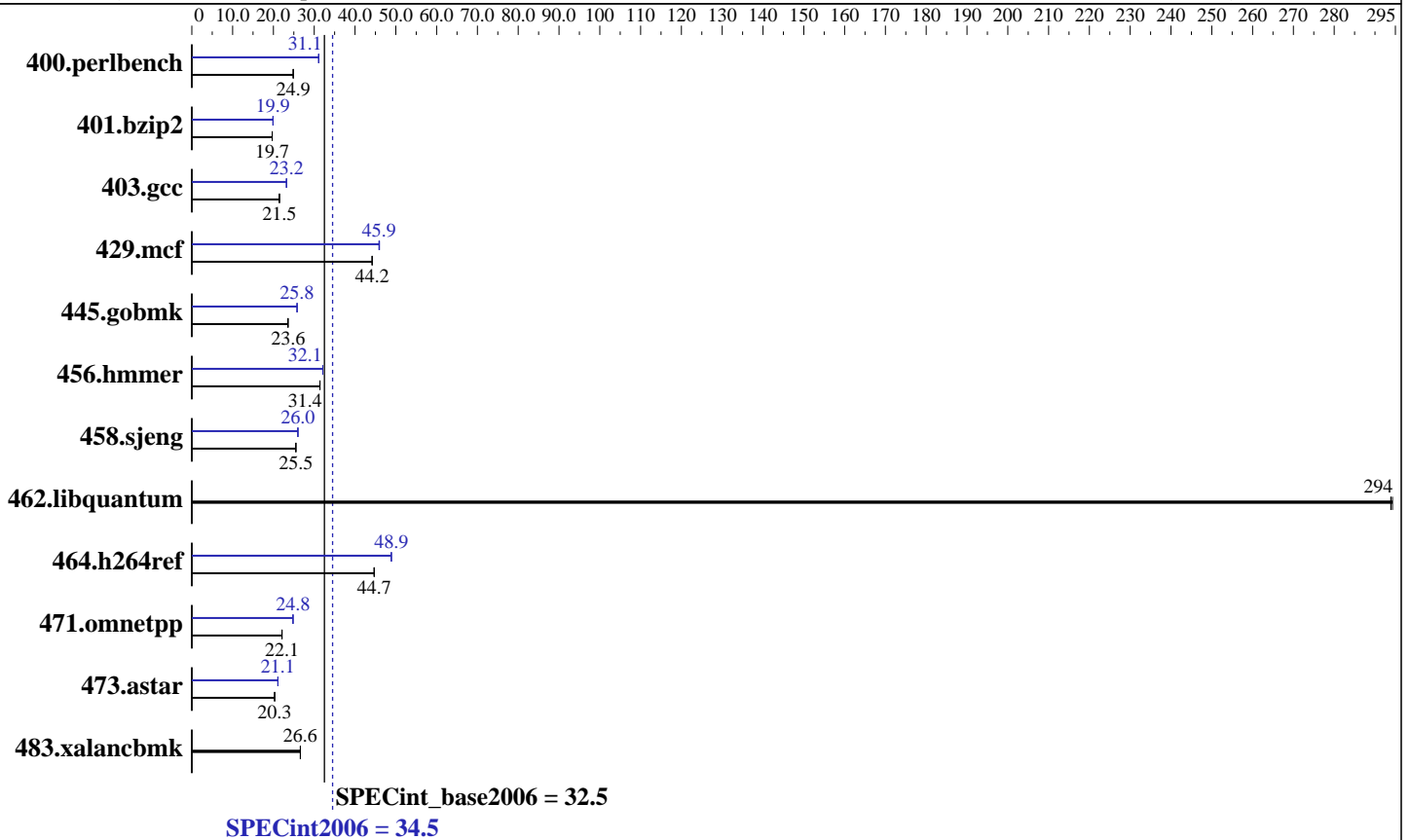
Test date: Mar-2009

Test sponsor: Intel Corporation

Hardware Availability: Mar-2009

Tested by: Intel Corporation

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon W3570
 CPU Characteristics: Intel Turbo Boost Technology up to 3.46 GHz
 CPU MHz: 3200
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 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: 12 GB (3 x 4GB DDR3-1333 CL9, IMHH4GP12A1F1C-13HT2)
 Disk Subsystem: Western Digital Raptor WD740, 10k rpm, 74GB SATA
 Other Hardware: None

Software

Operating System: Windows* XP* Professional x64 Edition SP2 Build 3790
 Compiler: Intel C++ Compiler Professional 11.0 for Intel 64 Build 20090131 Package ID: w_cproc_p_11.0.072 Microsoft Visual Studio 2008 Professional SP1 (for libraries)
 Auto Parallel: Yes
 File System: NTFS
 System State: Default
 Base Pointers: 32/64-bit
 Peak Pointers: 32/64-bit
 Other Software: SmartHeap Library Version 8.1 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	393	24.9	393	24.8	<u>393</u>	<u>24.9</u>	<u>314</u>	<u>31.1</u>	314	31.1	314	31.1
401.bzip2	491	19.7	<u>491</u>	<u>19.7</u>	491	19.7	485	19.9	<u>485</u>	<u>19.9</u>	485	19.9
403.gcc	375	21.5	<u>375</u>	<u>21.5</u>	376	21.4	<u>347</u>	<u>23.2</u>	347	23.2	347	23.2
429.mcf	206	44.2	<u>206</u>	<u>44.2</u>	206	44.2	198	46.0	<u>199</u>	<u>45.9</u>	199	45.9
445.gobmk	445	23.6	<u>445</u>	<u>23.6</u>	446	23.5	407	25.8	<u>407</u>	<u>25.8</u>	407	25.8
456.hmmer	297	31.4	297	31.4	<u>297</u>	<u>31.4</u>	291	32.1	<u>291</u>	<u>32.1</u>	291	32.1
458.sjeng	475	25.5	475	25.5	<u>475</u>	<u>25.5</u>	<u>466</u>	<u>26.0</u>	466	26.0	466	26.0
462.libquantum	<u>70.5</u>	<u>294</u>	70.4	294	70.5	294	<u>70.5</u>	<u>294</u>	70.4	294	70.5	294
464.h264ref	496	44.7	<u>496</u>	<u>44.7</u>	495	44.7	452	48.9	452	48.9	<u>452</u>	<u>48.9</u>
471.omnetpp	282	22.1	282	22.1	<u>282</u>	<u>22.1</u>	252	24.8	<u>252</u>	<u>24.8</u>	252	24.8
473.astar	346	20.3	346	20.3	<u>346</u>	<u>20.3</u>	333	21.1	<u>333</u>	<u>21.1</u>	333	21.1
483.xalancbmk	260	26.6	260	26.6	<u>260</u>	<u>26.6</u>	260	26.6	260	26.6	<u>260</u>	<u>26.6</u>

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

General Notes

OMP_NUM_THREADS set to number of processors cores
 KMP_AFFINITY set to granularity=fine,scatter
 System can be built with an extended ATX case like SuperChassis
 743TQ-865B-SQ and an 885W power supply.

Base Compiler Invocation

C benchmarks:
 icl -Qvc9 -Qstd=c99

C++ benchmarks:
 icl -Qvc9

Base Portability Flags

400.perlbench: -DSPEC_CPU_P64 -DSPEC_CPU_WIN64_X64
 -DSPEC_CPU_NO_NEED_VA_COPY
 401.bzip2: -DSPEC_CPU_P64
 403.gcc: -DSPEC_CPU_P64 -DSPEC_CPU_WIN64
 429.mcf: -DSPEC_CPU_P64
 445.gobmk: -DSPEC_CPU_P64
 456.hmmer: -DSPEC_CPU_P64
 458.sjeng: -DSPEC_CPU_P64

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Base Portability Flags (Continued)

```

462.libquantum: -DSPEC_CPU_P64
464.h264ref: -DSPEC_CPU_P64 -DWIN32 -DSPEC_CPU_NO_INTTYPES
471.omnetpp: -DSPEC_CPU_P64 -DSPEC_CPU_WIN64
473.astar: -DSPEC_CPU_P64
483.xalancbmk: -DSPEC_CPU_P64 -Qoption, cpp, --no_wchar_t_keyword

```

Base Optimization Flags

C benchmarks:

```

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel
-Qpar-runtime-control -Qvec-guard-write -Qauto-ilp32 /F512000000

```

C++ benchmarks:

```

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
-Qauto-ilp32 /F512000000 shlW64Mt.lib -link /FORCE:MULTIPLE

```

Base Other Flags

C benchmarks:

```

403.gcc: -Dalloca=_alloca

```

Peak Compiler Invocation

C benchmarks:

```

icl -Qvc9 -Qstd=c99

```

C++ benchmarks:

```

icl -Qvc9

```

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

```

400.perlbench: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
/F512000000

```

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Peak Optimization Flags (Continued)

401.bzp2: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qopt-prefetch -Qansi-alias
/F512000000

403.gcc: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- /F512000000

429.mcf: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F512000000

445.gobmk: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O2 -Qprec-div- -Qansi-alias /F512000000

456.hmmer: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias
/F512000000

458.sjeng: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll4 /F512000000

462.libquantum: basepeak = yes

464.h264ref: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias
-Qopt-ra-region-strategy=block /F512000000 sh1W64Mt.lib
-link /FORCE:MULTIPLE

473.astar: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias
-Qopt-ra-region-strategy=routine /F512000000 sh1W64Mt.lib
-link /FORCE:MULTIPLE

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca



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The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-winx64-revA.html>
<http://www.spec.org/cpu2006/flags/Intel-Winx64-Platform.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-winx64-revA.xml>
<http://www.spec.org/cpu2006/flags/Intel-Winx64-Platform.xml>

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

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