



SPEC® CINT2006 Result

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Supermicro

(Test Sponsor: Intel Corporation)

SPECint®_rate2006 = 126

Supermicro X8DAI (Intel Xeon W3570, 3.2 GHz)

SPECint_rate_base2006 = 120

CPU2006 license: 13

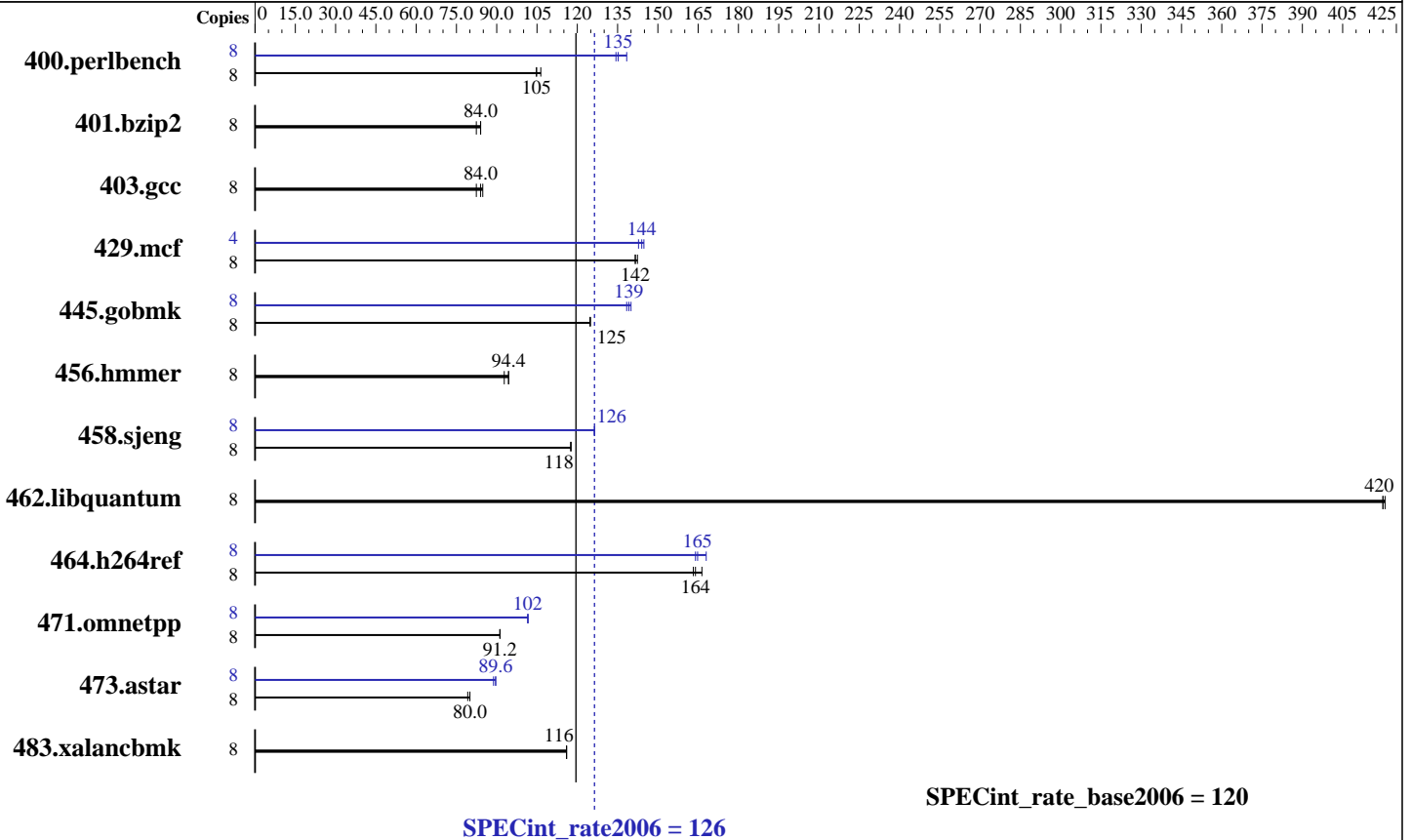
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Mar-2009

Hardware Availability: Mar-2009

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-13H T2)
 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 IA32 Build 20090131 Package ID: w_cproc_p_11.0.072 Microsoft Visual Studio 2008 Professional SP1 (for libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: SmartHeap Library Version 8.1 from <http://www.microquill.com/>



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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	736	106	<u>745</u>	<u>105</u>	746	105	8	565	138	580	134	<u>580</u>	<u>135</u>
401.bzip2	8	935	82.4	922	84.0	<u>923</u>	<u>84.0</u>	8	935	82.4	922	84.0	<u>923</u>	<u>84.0</u>
403.gcc	8	778	82.4	<u>764</u>	<u>84.0</u>	763	84.8	8	778	82.4	<u>764</u>	<u>84.0</u>	763	84.8
429.mcf	8	<u>516</u>	<u>142</u>	516	142	512	142	4	<u>254</u>	<u>144</u>	255	143	252	145
445.gobmk	8	671	125	<u>671</u>	<u>125</u>	672	125	8	605	138	<u>604</u>	<u>139</u>	601	140
456.hammer	8	<u>791</u>	<u>94.4</u>	790	94.4	802	92.8	8	<u>791</u>	<u>94.4</u>	790	94.4	802	92.8
458.sjeng	8	<u>822</u>	<u>118</u>	822	118	823	118	8	764	126	764	126	<u>764</u>	<u>126</u>
462.libquantum	8	<u>395</u>	<u>420</u>	395	420	394	421	8	<u>395</u>	<u>420</u>	395	420	394	421
464.h264ref	8	1066	166	1082	163	<u>1078</u>	<u>164</u>	8	<u>1076</u>	<u>165</u>	1053	168	1077	164
471.omnetpp	8	<u>548</u>	<u>91.2</u>	547	91.2	548	91.2	8	<u>493</u>	<u>102</u>	493	102	493	102
473.astar	8	<u>703</u>	<u>80.0</u>	702	80.0	707	79.2	8	630	88.8	627	89.6	<u>628</u>	<u>89.6</u>
483.xalancbmk	8	<u>477</u>	<u>116</u>	477	116	477	116	8	<u>477</u>	<u>116</u>	477	116	477	116

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.
the start command with /affinity was used to bind copies to cores

General Notes

System can be built with an extended ATX case like SuperChassis 743TQ-865B-SQ and an 885W power supply.
This result is a 32-bit result and the -DSPEC_CPU_WIN64 portability flag for 471.omnetpp is not required. However, this portability flag did not affect the generated code since one needs -DSPEC_CPU_P64 defined for the -DSPEC_CPU_WIN64 flag to have any effect.
Given that the use of -DSPEC_CPU_WIN64 did not affect the generated code, SPEC has decided to allow this publication but will disallow future publications that use this flag for a 32-bit submission.

Base Compiler Invocation

C benchmarks:
icl -Qvc9 -Qstd=c99

C++ benchmarks:
icl -Qvc9



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Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DWIN32 -DSPEC_CPU_NO_INTTYPES
471.omnetpp: -DSPEC_CPU_WIN64
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

Base Optimization Flags

C benchmarks:

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

C++ benchmarks:

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
/F512000000 shlw32m.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

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DWIN32 -DSPEC_CPU_NO_INTTYPES
471.omnetpp: -DSPEC_CPU_WIN64
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

Peak Optimization Flags

C benchmarks:

Continued on next page



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Peak Optimization Flags (Continued)

400.perlbench: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: basepeak = yes

403.gcc: basepeak = yes

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: basepeak = yes

458.sjeng: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll14 /F512000000

462.libquantum: basepeak = yes

464.h264ref: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll12 -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 shlw32m.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 shlw32m.lib
-link /FORCE:MULTIPLE

483.xalanbmk: 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-ic11.0-win32-revA.20100310.html>



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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20100310.xml>

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For other inquiries, please contact webmaster@spec.org.

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