



# SPEC® CINT2006 Result

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## Intel Corporation

Supermicro SuperServer 7046A-T (Intel Xeon X5680, 3.33 GHz)

SPECint®\_rate2006 = 339

SPECint\_rate\_base2006 = 319

CPU2006 license: 13

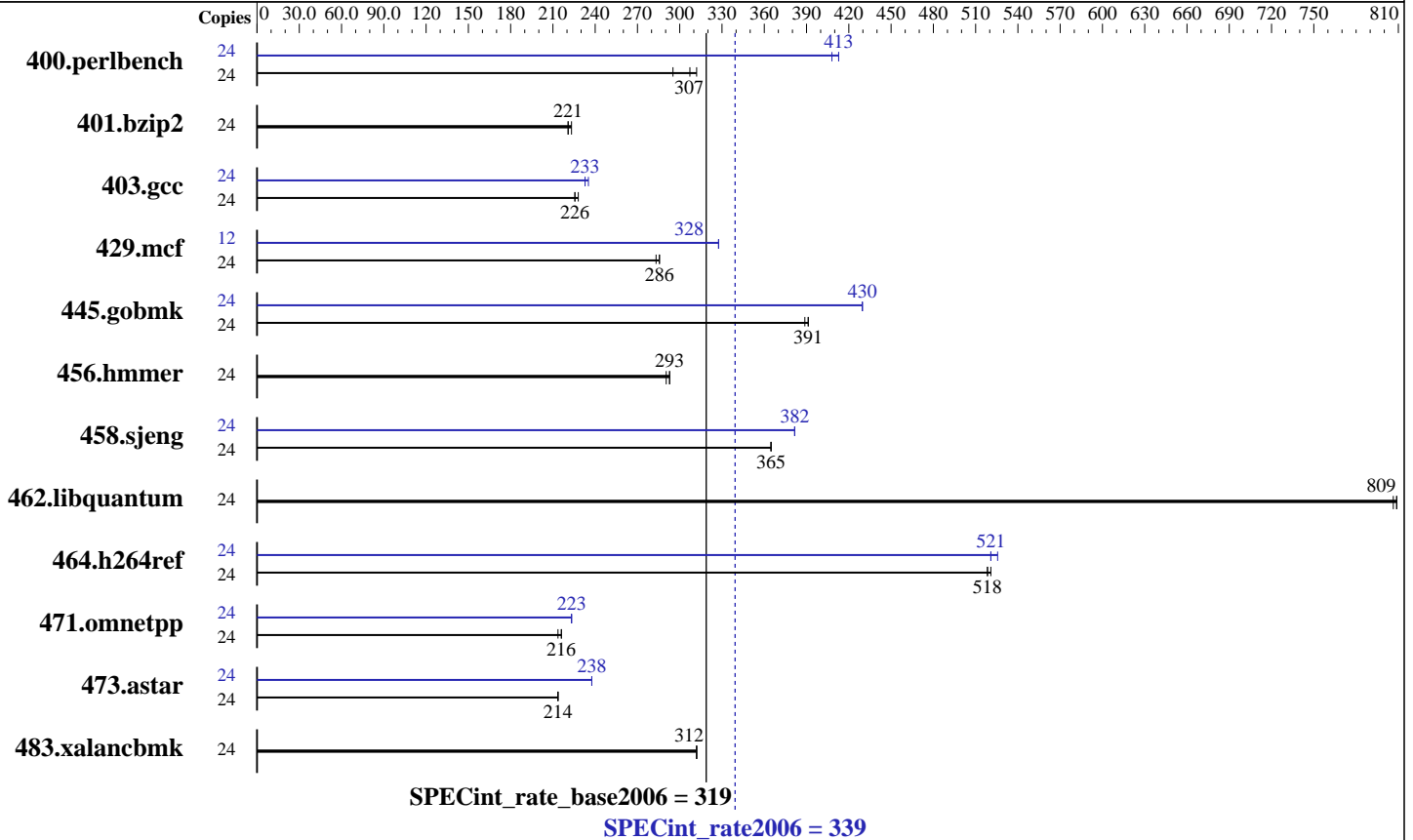
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Mar-2010

Hardware Availability: Mar-2010

Software Availability: Nov-2009



### Hardware

CPU Name: Intel Xeon X5680  
 CPU Characteristics: Intel Turbo Boost Technology up to 3.60 GHz  
 CPU MHz: 3333  
 FPU: Integrated  
 CPU(s) enabled: 12 cores, 2 chips, 6 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: 12 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 24 GB (6x 4GB DDR3-1333, ECC, CL9)  
 Disk Subsystem: 1 x 300 GB SATA, 10000 RPM  
 Other Hardware: None

### Software

Operating System: Windows 7 Enterprise (64-bit)  
 Compiler: Intel C++ Compiler Professional 11.1 for IA32  
 Build 20090903 Package ID: w\_cproc\_p\_11.1.045  
 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	24	749	312	795	295	<b>762</b>	<b>307</b>	24	<b>569</b>	<b>413</b>	568	413	576	408
401.bzip2	24	<b>1049</b>	<b>221</b>	1041	223	1053	221	24	<b>1049</b>	<b>221</b>	1041	223	1053	221
403.gcc	24	847	228	<b>855</b>	<b>226</b>	855	226	24	819	235	<b>826</b>	<b>233</b>	829	233
429.mcf	24	772	283	766	286	<b>767</b>	<b>286</b>	12	334	328	<b>334</b>	<b>328</b>	334	328
445.gobmk	24	<b>646</b>	<b>391</b>	647	389	645	391	24	<b>586</b>	<b>430</b>	587	430	585	430
456.hammer	24	<b>768</b>	<b>293</b>	764	293	771	290	24	<b>768</b>	<b>293</b>	764	293	771	290
458.sjeng	24	<b>795</b>	<b>365</b>	795	365	794	365	24	759	382	761	382	<b>761</b>	<b>382</b>
462.libquantum	24	617	806	614	809	<b>615</b>	<b>809</b>	24	617	806	614	809	<b>615</b>	<b>809</b>
464.h264ref	24	1022	521	<b>1023</b>	<b>518</b>	1026	518	24	1012	526	1022	521	<b>1020</b>	<b>521</b>
471.omnetpp	24	698	216	699	214	<b>698</b>	<b>216</b>	24	672	223	673	223	<b>672</b>	<b>223</b>
473.astar	24	<b>786</b>	<b>214</b>	785	214	786	214	24	710	238	711	238	<b>710</b>	<b>238</b>
483.xalancbmk	24	<b>530</b>	<b>312</b>	532	312	530	312	24	<b>530</b>	<b>312</b>	532	312	530	312

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.

## General Notes

Tested systems is used with tower case,  
PC Power and Cooling dual 865W power supplys  
System was configured with nVidia Quadro FX 370 discrete graphics card

## Base Compiler Invocation

C benchmarks:  
icl -Qvc9 -Qstd=c99

C++ benchmarks:  
icl -Qvc9

## Base Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32  
464.h264ref: -DWIN32 -DSPEC\_CPU\_NO\_INTTYPES  
483.xalancbmk: -Qoption,cpp,--no\_wchar\_t\_keyword



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## 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  
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword`

## 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 shlw32M.lib -link /FORCE:MULTIPLE`

`401.bzip2: basepeak = yes`

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

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

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## Peak Optimization Flags (Continued)

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.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-ic11.0-winx64-revA.20100302.00.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-winx64-revA.20100302.00.xml>



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

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