



SPEC® CINT2006 Result

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ClearCube Technology

SPECint®_rate2006 = 123

R3040S PC Blade (Xeon E5645)

SPECint_rate_base2006 = 107

CPU2006 license: 4207

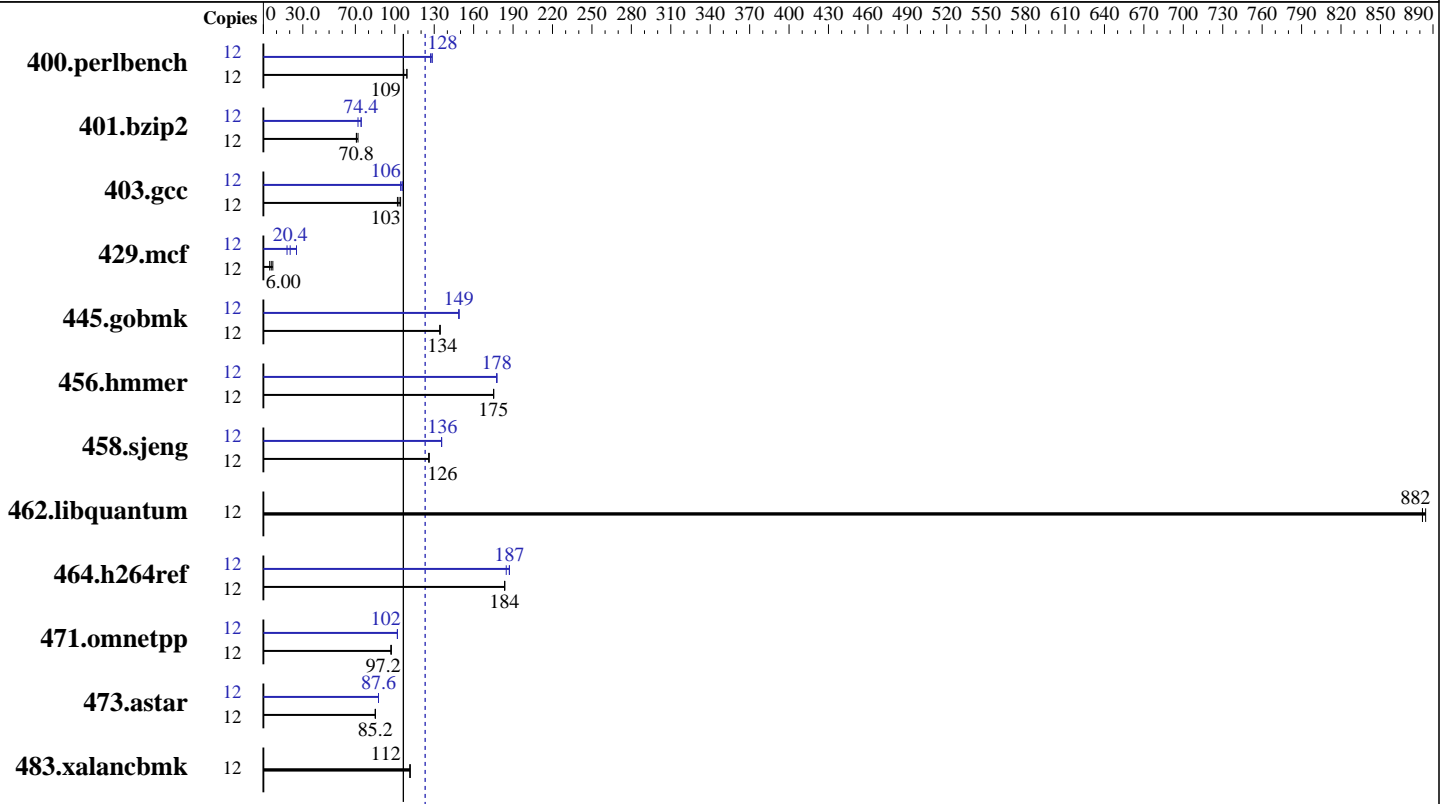
Test date: Oct-2011

Test sponsor: ClearCube Technology

Hardware Availability: Jun-2011

Tested by: ClearCube Technology

Software Availability: Jul-2011



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Hardware

CPU Name: Intel Xeon E5645
 CPU Characteristics: Intel Turbo Boost Technology disabled
 CPU MHz: 2268
 FPU: Integrated
 CPU(s) enabled: 6 cores, 1 chip, 6 cores/chip, 2 threads/core
 CPU(s) orderable: 1 chip
 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: 6 GB (3 x 2 GB 2Rx8 PC3-10600U-9)
 Disk Subsystem: 80GB Intel SSD
 Other Hardware: None

Software

Operating System: Microsoft Windows 7 Professional
 6.1.7601 Service Pack 1 Build 7601
 Compiler: C++: Version 12.0.3 Update 163 of Intel C++
 Compiler XE for IA32 Build 20110217
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: None



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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	12	1095	107	1074	109	1074	109	12	913	128	913	128	922	127
401.bzip2	12	1636	70.8	1628	70.8	1619	72.0	12	1600	72.0	1554	74.4	1550	74.4
403.gcc	12	923	104	939	103	949	102	12	915	106	930	104	918	106
429.mcf	12	18472	6.00	22922	4.80	15976	7.20	12	5971	18.0	4322	25.2	5519	20.4
445.gobmk	12	939	134	939	134	938	134	12	844	149	843	149	844	149
456.hammer	12	639	175	639	175	640	175	12	632	178	633	178	633	178
458.sjeng	12	1149	126	1150	126	1150	126	12	1070	136	1071	136	1070	136
462.libquantum	12	282	882	281	884	282	882	12	282	882	281	884	282	882
464.h264ref	12	1447	184	1447	184	1447	184	12	1418	187	1418	187	1438	185
471.omnetpp	12	770	97.2	772	97.2	771	97.2	12	738	102	737	102	737	102
473.astar	12	986	85.2	984	85.2	984	85.2	12	963	87.6	963	87.6	962	87.6
483.xalancbmk	12	742	112	740	112	741	112	12	742	112	740	112	741	112

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.

Platform Notes

```

Sysinfo program C:\cpu2006/Docs/sysinfo
$Rev: 6775 $ $Date: 2011-08-16 # $ \8787f7622badcf24e01c368b1db4377c
running on 3040SPEC Tue Oct 4 13:56:16 2011

```

This section contains SUT (System Under Test) info as seen by some common utilities. To remove or add to this section, see:
<http://www.spec.org/cpu2006/Docs/config.html#sysinfo>

```

Trying 'systeminfo'
OS Name       : Microsoft Windows 7 Professional
OS Version    : 6.1.7601 Service Pack 1 Build 7601
System Manufacturer: Intel
System Model   : Thurley
Processor(s)   : 1 Processor(s) Installed.
                [01]: Intel64 Family 6 Model 44 Stepping 2 GenuineIntel ~2268 Mhz
BIOS Version   : American Megatrends Inc. 080016 , 7/26/2010
Total Physical Memory: 6,135 MB

```

```

Trying 'wmic cpu get /value'
DeviceID      : CPU0
L2CacheSize   : 1536
L3CacheSize   : 12288
MaxClockSpeed : 2268

```

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Platform Notes (Continued)

Name : Intel(R) Xeon(R) CPU E5645 @ 2.40GHz

NumberOfCores : 6

NumberOfLogicalProcessors: 12

(End of data from sysinfo program)

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

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

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:

icl -Qvc9 -Qstd=c99

C++ benchmarks:

icl -Qvc9



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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 -link /FORCE:MULTIPLE

401.bzip2: -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- -Qopt-prefetch /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.hmmcr: -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

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

483.xalancbmk: basepeak = yes



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Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

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

<http://www.spec.org/cpu2006/flags/Intel-ic12-win32-revD.html>

<http://www.spec.org/cpu2006/flags/ClearCube-Platform-3040-revA.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic12-win32-revD.xml>

<http://www.spec.org/cpu2006/flags/ClearCube-Platform-3040-revA.xml>

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

Tested with SPEC CPU2006 v1.2.

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