SPEC® CINT2006 Result

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ClearCube Technology

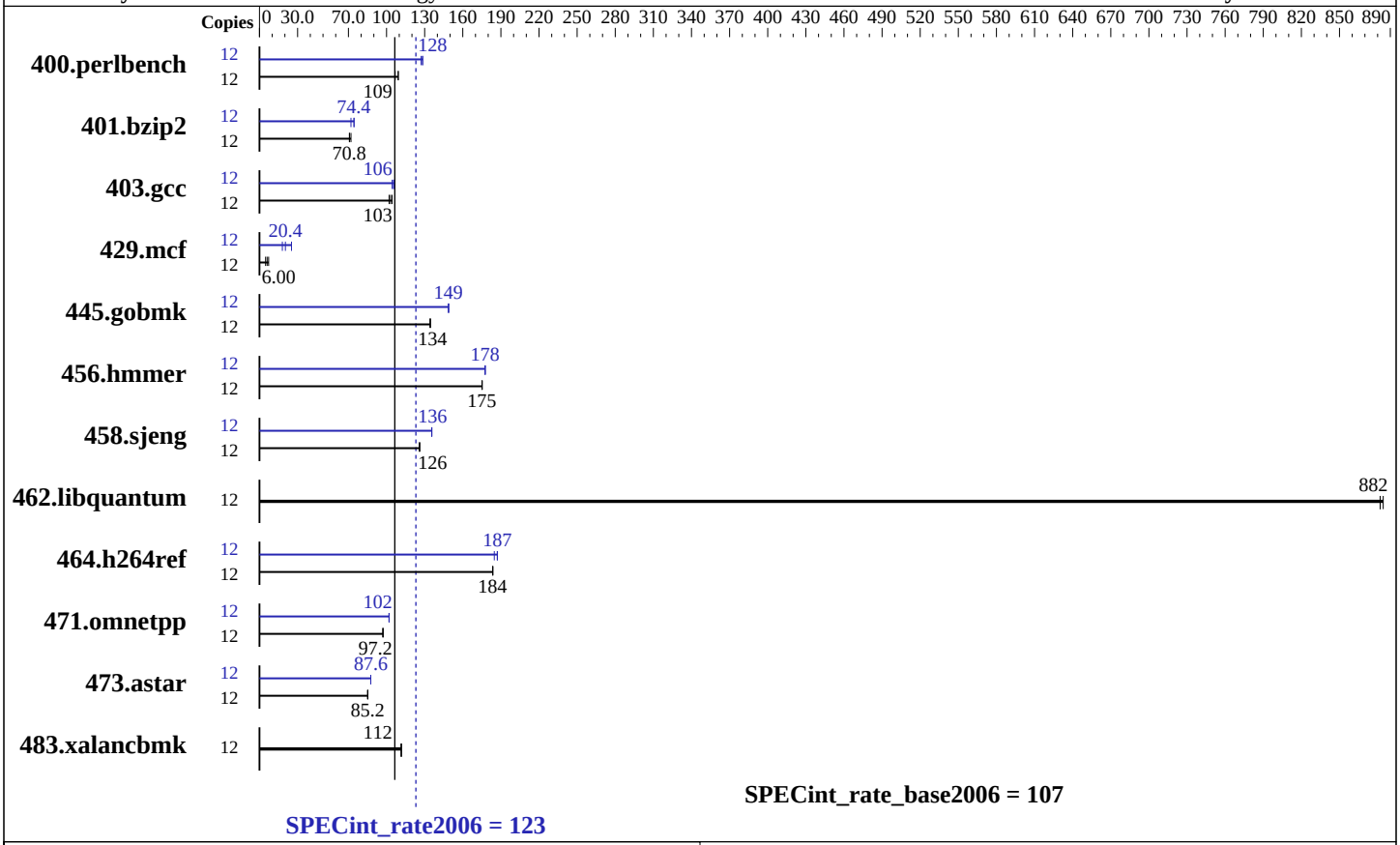
R3040S PC Blade (Xeon E5645)

SPECint®_rate2006 = 123

SPECint_rate_base2006 = 107

CPU2006 license: 4207
Test sponsor: ClearCube Technology
Tested by: ClearCube Technology

Test date: Oct-2011
Hardware Availability: Jun-2011
Software Availability: Jul-2011



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.hmmer	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
```

Continued on next page

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
```

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.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

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

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

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