



SPEC® CINT2006 Result

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Intel Corporation

SPECint®2006 = 33.3

Intel DH61WW motherboard (Intel Pentium G630)

SPECint_base2006 = 31.8

CPU2006 license: 13

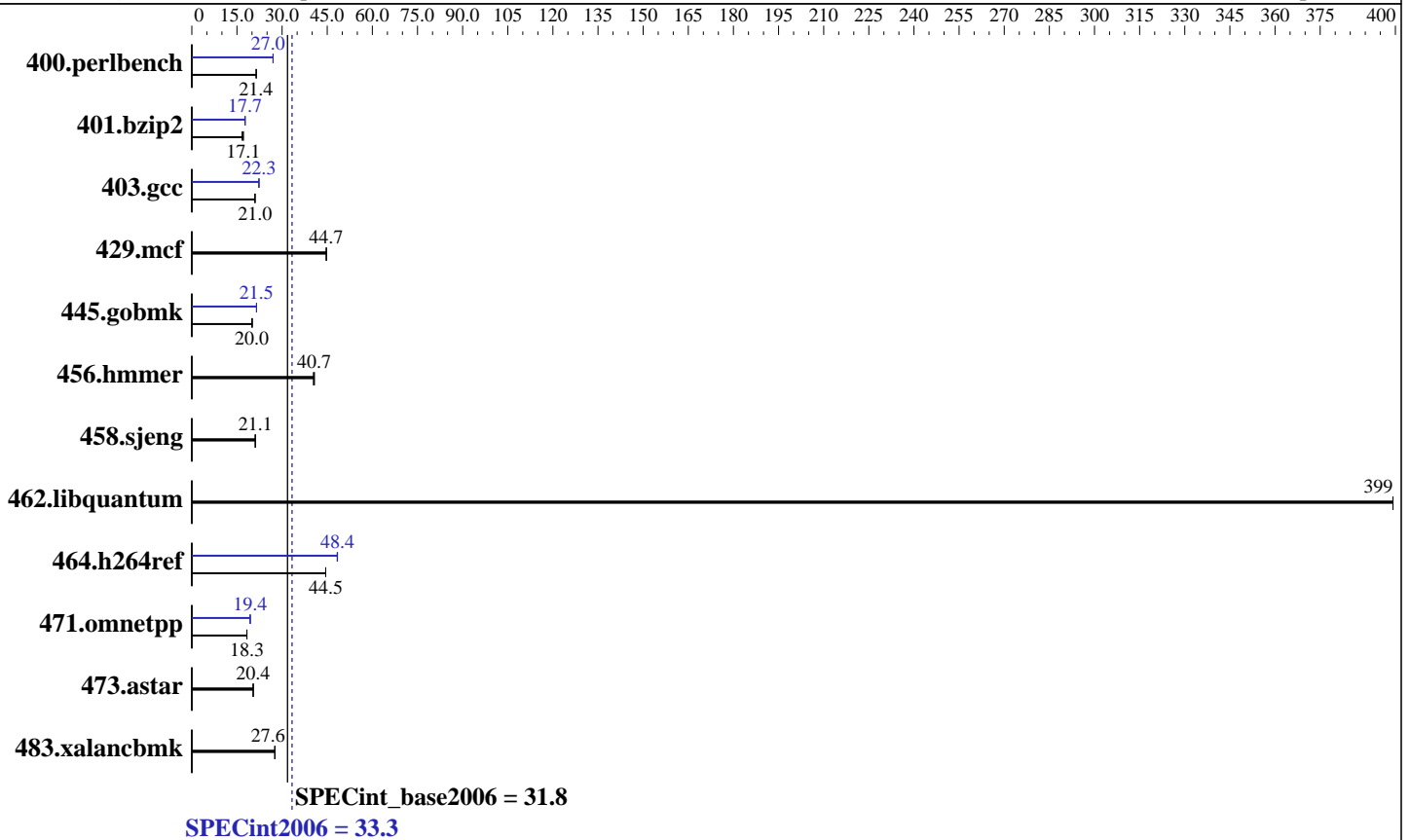
Test date: Dec-2011

Test sponsor: Intel Corporation

Hardware Availability: Sep-2011

Tested by: Intel Corporation

Software Availability: Sep-2011



Hardware

CPU Name: Intel Pentium G630
 CPU Characteristics:
 CPU MHz: 2700
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 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: 3 MB I+D on chip per chip
 Other Cache: None
 Memory: 4 GB (2 x 2 GB 2Rx8 PC3-10600U-9, running at 1066 MHz and CL7)
 Disk Subsystem: 1 TB Seagate SATA, 7200 RPM
 Other Hardware: None

Software

Operating System: Microsoft Windows 7 Ultimate 6.1.7601 Service Pack 1 Build 7601
 Compiler: C/C++: Version 12.1.0.229 of Intel C++ Studio XE for Windows;
 Libraries: Version 15.00.30729.01 of Microsoft Visual Studio 2008 Professional SP1
 Auto Parallel: Yes
 File System: NTFS
 System State: Default
 Base Pointers: 32/64-bit
 Peak Pointers: 32/64-bit
 Other Software: SmartHeap Library Version 9.01 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	457	21.4	457	21.4	<u>457</u>	<u>21.4</u>	<u>362</u>	<u>27.0</u>	362	27.0	362	27.0
401.bzip2	579	16.7	563	17.1	<u>564</u>	<u>17.1</u>	546	17.7	<u>546</u>	<u>17.7</u>	547	17.7
403.gcc	<u>383</u>	<u>21.0</u>	383	21.0	383	21.0	<u>361</u>	<u>22.3</u>	361	22.3	361	22.3
429.mcf	204	44.7	204	44.7	<u>204</u>	<u>44.7</u>	204	44.7	204	44.7	<u>204</u>	<u>44.7</u>
445.gobmk	523	20.1	523	20.0	<u>523</u>	<u>20.0</u>	489	21.5	<u>489</u>	<u>21.5</u>	489	21.5
456.hammer	231	40.4	<u>229</u>	<u>40.7</u>	229	40.7	231	40.4	<u>229</u>	<u>40.7</u>	229	40.7
458.sjeng	574	21.1	574	21.1	<u>574</u>	<u>21.1</u>	574	21.1	574	21.1	<u>574</u>	<u>21.1</u>
462.libquantum	51.9	399	<u>51.9</u>	<u>399</u>	51.9	399	51.9	399	<u>51.9</u>	<u>399</u>	51.9	399
464.h264ref	<u>497</u>	<u>44.5</u>	497	44.5	497	44.5	458	48.3	<u>458</u>	<u>48.4</u>	458	48.4
471.omnetpp	342	18.3	342	18.3	<u>342</u>	<u>18.3</u>	323	19.4	323	19.4	<u>323</u>	<u>19.4</u>
473.astar	<u>345</u>	<u>20.4</u>	345	20.4	345	20.4	<u>345</u>	<u>20.4</u>	345	20.4	345	20.4
483.xalancbmk	<u>250</u>	<u>27.6</u>	250	27.6	250	27.6	<u>250</u>	<u>27.6</u>	250	27.6	250	27.6

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

Compiler Invocation Notes

ipsxe-comp-vars batch file invoked with intel64

Platform Notes

Sysinfo program C:\SPEC12.1/Docs/sysinfo
\$Rev: 6775 \$ \$Date:: 2011-08-16 # \$ \8787f7622badcf24e01c368b1db4377c
running on CltE06995A30CB5 Thu Dec 29 00:56:09 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 Ultimate
OS Version   : 6.1.7601 Service Pack 1 Build 7601
System Manufacturer: INTEL_
System Model  : DH61WW__
Processor(s) : 1 Processor(s) Installed.
               [01]: Intel64 Family 6 Model 42 Stepping 7 GenuineIntel ~2700 Mhz
BIOS Version : Intel Corp. BEH6110H.86A.0016.2011.0118.1128, 1/18/2011
Total Physical Memory: 4,004 MB
```

```
Trying 'wmic cpu get /value'
DeviceID     : CPU0
L2CacheSize  : 512
L3CacheSize  : 3072
MaxClockSpeed : 2700
```

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Platform Notes (Continued)

Name : Intel(R) Pentium(R) CPU G630 @ 2.70GHz

NumberOfCores : 2

NumberOfLogicalProcessors: 2

(End of data from sysinfo program)

Component Notes

Tested systems can be used with Shin-G ATX case,
PC Power and Cooling 1200W power supply

General Notes

OMP_NUM_THREADS set to number of processors cores

KMP_AFFINITY set to granularity=fine,scatter

Binaries compiled on a system with 1x Intel Core i7-860 CPU

+ 8GB memory using Windows 7 Enterprise 64-bit

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

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



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Base Optimization Flags

C benchmarks:

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel
-Qauto-ilp32 /F512000000

C++ benchmarks:

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
-Qauto-ilp32 /F512000000 shlw64M.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
-Qauto-ilp32 /F512000000 shlw64M.lib
-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
-Qauto-ilp32 /F512000000

403.gcc: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qauto-ilp32 /F512000000

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Peak Optimization Flags (Continued)

429.mcf: basepeak = yes

445.gobmk: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O2 -Qprec-div- -Qansi-alias -Qauto-ilp32
/F512000000

456.hmmr: basepeak = yes

458.sjeng: basepeak = yes

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
-Qauto-ilp32 /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 -Qauto-ilp32 /F512000000
shlW64M.lib -link /FORCE:MULTIPLE

473.astar: basepeak = yes

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-ic12.1-official-windows.20120117.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-windows.20120117.xml>



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

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