SPEC® CINT2006 Result

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Intel Corporation

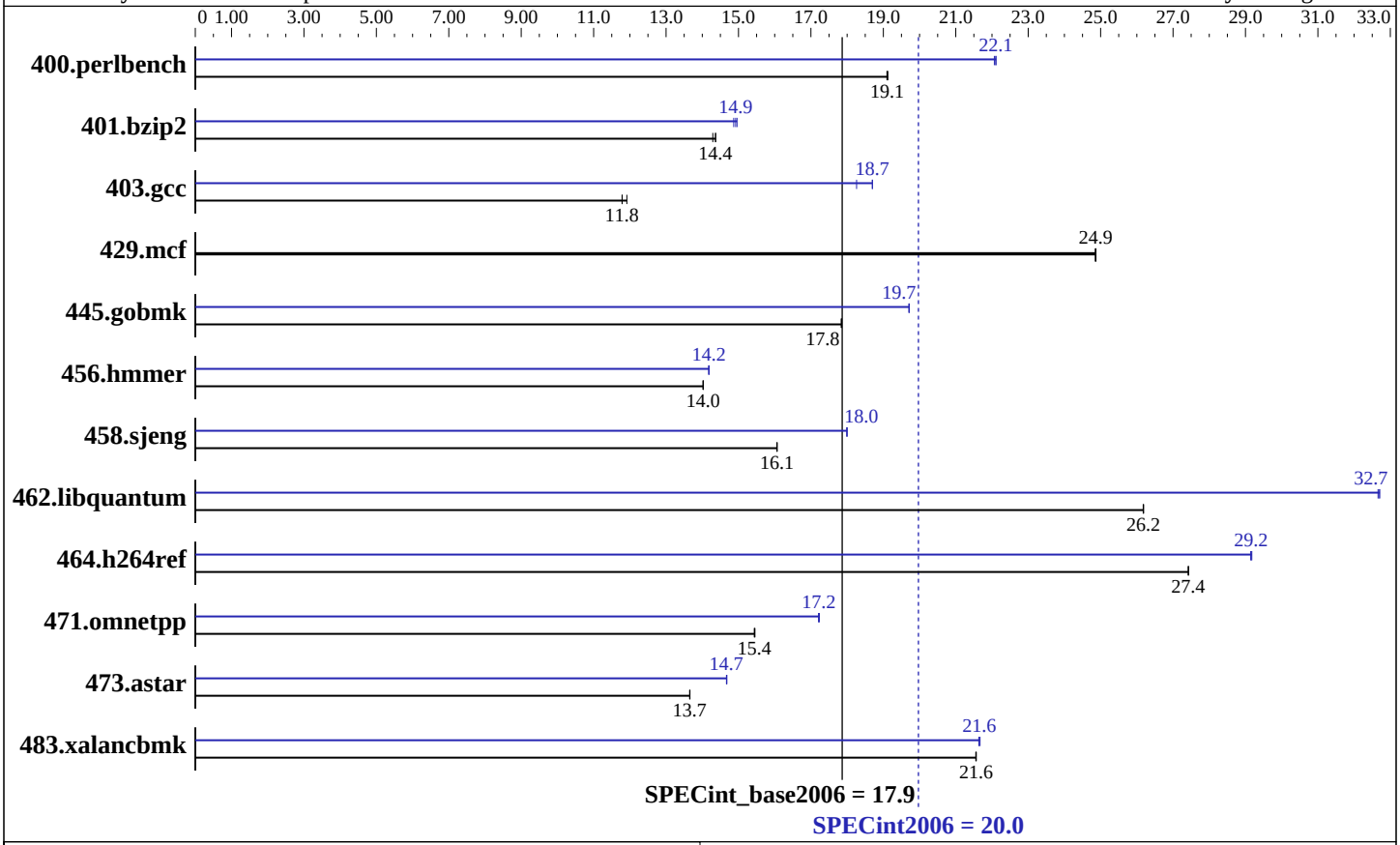
Intel DG965WH motherboard (Intel Core 2 Duo E6700)

SPECint®2006 = 20.0

SPECint_base2006 = 17.9

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

Test date: Jun-2007
Hardware Availability: Aug-2006
Software Availability: Aug-2006



Hardware

CPU Name:	Intel Core 2 Duo E6700
CPU Characteristics:	2.67 GHz, 1066 MHz bus
CPU MHz:	2667
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:	4 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	2 GB (2 1GB Micron MT16HTF12864AY-80ED4 DDR2 800, CL5)
Disk Subsystem:	Seagate ST3320620AS 320GB Barracuda 7200.10 NCQ SATA II
Other Hardware:	None

Software

Operating System:	Windows Vista32 Ultimate
Compiler:	Intel C++ Compiler for IA32 version 10.0 Build 20070426 Package ID: W_CC_P_10.0.025 Microsoft Visual Studio .Net 2003 (for libraries)
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	SmartHeap Library Version 8.0 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	**511**	**19.1**	511	19.1	512	19.1	443	22.1	**442**	**22.1**	442	22.1
401.bzip2	675	14.3	**672**	**14.4**	672	14.4	645	15.0	649	14.9	**647**	**14.9**
403.gcc	683	11.8	**683**	**11.8**	676	11.9	441	18.3	431	18.7	**431**	**18.7**
429.mcf	367	24.9	**367**	**24.9**	367	24.9	367	24.9	**367**	**24.9**	367	24.9
445.gobmk	588	17.8	**588**	**17.8**	588	17.8	**532**	**19.7**	532	19.7	532	19.7
456.hmmer	**665**	**14.0**	665	14.0	665	14.0	**658**	**14.2**	658	14.2	658	14.2
458.sjeng	**753**	**16.1**	753	16.1	754	16.1	673	18.0	**672**	**18.0**	672	18.0
462.libquantum	**791**	**26.2**	791	26.2	792	26.2	**634**	**32.7**	633	32.7	634	32.7
464.h264ref	807	27.4	**807**	**27.4**	807	27.4	**759**	**29.2**	759	29.2	759	29.1
471.omnetpp	**405**	**15.4**	405	15.4	404	15.5	**363**	**17.2**	363	17.2	363	17.2
473.astar	514	13.7	**514**	**13.7**	514	13.7	**479**	**14.7**	479	14.7	478	14.7
483.xalancbmk	**320**	**21.6**	320	21.6	320	21.6	319	21.6	318	21.7	**319**	**21.6**

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

General Notes

```
Tested systems can be used with Shin-G ATX case, Antec NeoPower 480W power supply
Product description located as of 7/2007:
http://www.intel.com/products/motherboard/DG965WH/index.htm
The system bus runs at 1066 MHz
System has a discrete gfx card - Asus EN8800GTX/HTDP/768M w/ nVidia 8800GTX
Binaries were built on Windows XP Professional SP2 with 4GB of RAM and /3GB boot switch
```

Base Compiler Invocation

C benchmarks:

```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:

```
icl -Qvc7.1
```

Base Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

Base Optimization Flags

C benchmarks:
```
-fast /F512000000 shlw32m.lib            -link /FORCE:MULTIPLE
```

C++ benchmarks:
```
-fast -Qcxx_features /F512000000 shlw32m.lib
            -link /FORCE:MULTIPLE
```

Base Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

Peak Compiler Invocation

C benchmarks:
```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:
```
icl -Qvc7.1
```

Peak Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

Peak Optimization Flags

C benchmarks:

400.perlbench: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qansi-alias -Qprefetch /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

401.bzip2: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

403.gcc: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 -link /FORCE:MULTIPLE`

429.mcf: `basepeak = yes`

Continued on next page

Peak Optimization Flags (Continued)

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo -Qprec_div- -Qansi-alias /F512000000 -link /FORCE:MULTIPLE

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4 /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

462.libquantum: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4 -Ob0 -Qprefetch -Qopt-streaming-stores:always /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

464.h264ref: Same as 456.hmmer

C++ benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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-ic10-ia32-intel64-linux-flags.20090714.42.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.42.xml

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