



SPEC® CINT2006 Result

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HITACHI

SPECint®2006 = 17.1

BladeSymphony BS1000 (Intel Xeon X5355)

SPECint_base2006 = 16.5

CPU2006 license: 872

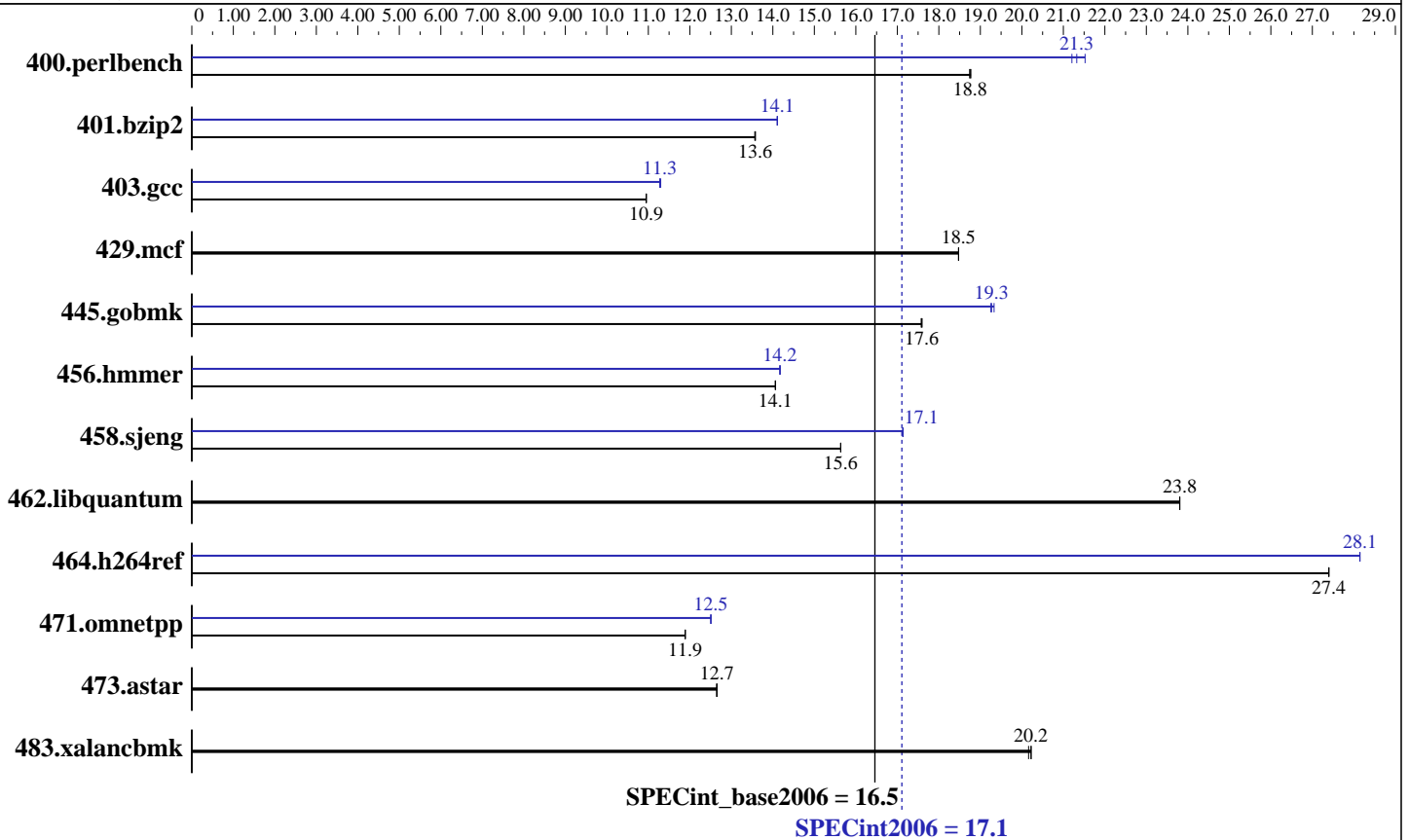
Test sponsor: HITACHI

Tested by: HITACHI

Test date: Jul-2007

Hardware Availability: Jan-2007

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: 1333 MHz system bus
 CPU MHz: 2666
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1, 2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB(8 x 2 GB PC2-5300F CAS 5-5-5)
 Disk Subsystem: 2 x 73 GB 10000rpm SAS
 Other Hardware: None

Software

Operating System: Microsoft Windows Server 2003 R2, Enterprise x64 Edition
 Compiler: Intel C++ Compiler for IA32 version 10.0 Build 20070426
 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



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	521	18.7	520	18.8	<u>521</u>	<u>18.8</u>	454	21.5	461	21.2	<u>458</u>	<u>21.3</u>
401.bzip2	<u>711</u>	<u>13.6</u>	711	13.6	711	13.6	684	14.1	684	14.1	<u>684</u>	<u>14.1</u>
403.gcc	<u>735</u>	<u>10.9</u>	735	11.0	735	10.9	714	11.3	<u>714</u>	<u>11.3</u>	713	11.3
429.mcf	494	18.5	<u>494</u>	<u>18.5</u>	494	18.5	494	18.5	<u>494</u>	<u>18.5</u>	494	18.5
445.gobmk	596	17.6	<u>596</u>	<u>17.6</u>	597	17.6	543	19.3	545	19.3	<u>544</u>	<u>19.3</u>
456.hammer	663	14.1	<u>664</u>	<u>14.1</u>	664	14.1	<u>658</u>	<u>14.2</u>	659	14.2	658	14.2
458.sjeng	<u>774</u>	<u>15.6</u>	774	15.6	774	15.6	706	17.1	706	17.1	<u>706</u>	<u>17.1</u>
462.libquantum	<u>870</u>	<u>23.8</u>	871	23.8	870	23.8	<u>870</u>	<u>23.8</u>	871	23.8	870	23.8
464.h264ref	808	27.4	808	27.4	<u>808</u>	<u>27.4</u>	786	28.1	<u>786</u>	<u>28.1</u>	786	28.1
471.omnetpp	526	11.9	<u>526</u>	<u>11.9</u>	526	11.9	500	12.5	<u>500</u>	<u>12.5</u>	500	12.5
473.astar	<u>555</u>	<u>12.7</u>	555	12.7	555	12.7	<u>555</u>	<u>12.7</u>	555	12.7	555	12.7
483.xalancbmk	<u>341</u>	<u>20.2</u>	342	20.2	341	20.2	<u>341</u>	<u>20.2</u>	342	20.2	341	20.2

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

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



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

401.bzip2: Same as 400.perlbench

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

462.libquantum: basepeak = yes

464.h264ref: Same as 400.perlbench

C++ benchmarks:

Continued on next page



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Peak Optimization Flags (Continued)

471.omnetpp: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qcxx_features /F512000000 shlw32m.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/ic100.html>

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

<http://www.spec.org/cpu2006/flags/ic100.xml>

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