



# SPEC<sup>®</sup> CINT2006 Result

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## HITACHI

SPECint<sup>®</sup>\_rate2006 = 53.8

### BladeSymphony BS1000 (Intel Xeon 5160)

SPECint\_rate\_base2006 = 51.8

CPU2006 license: 872

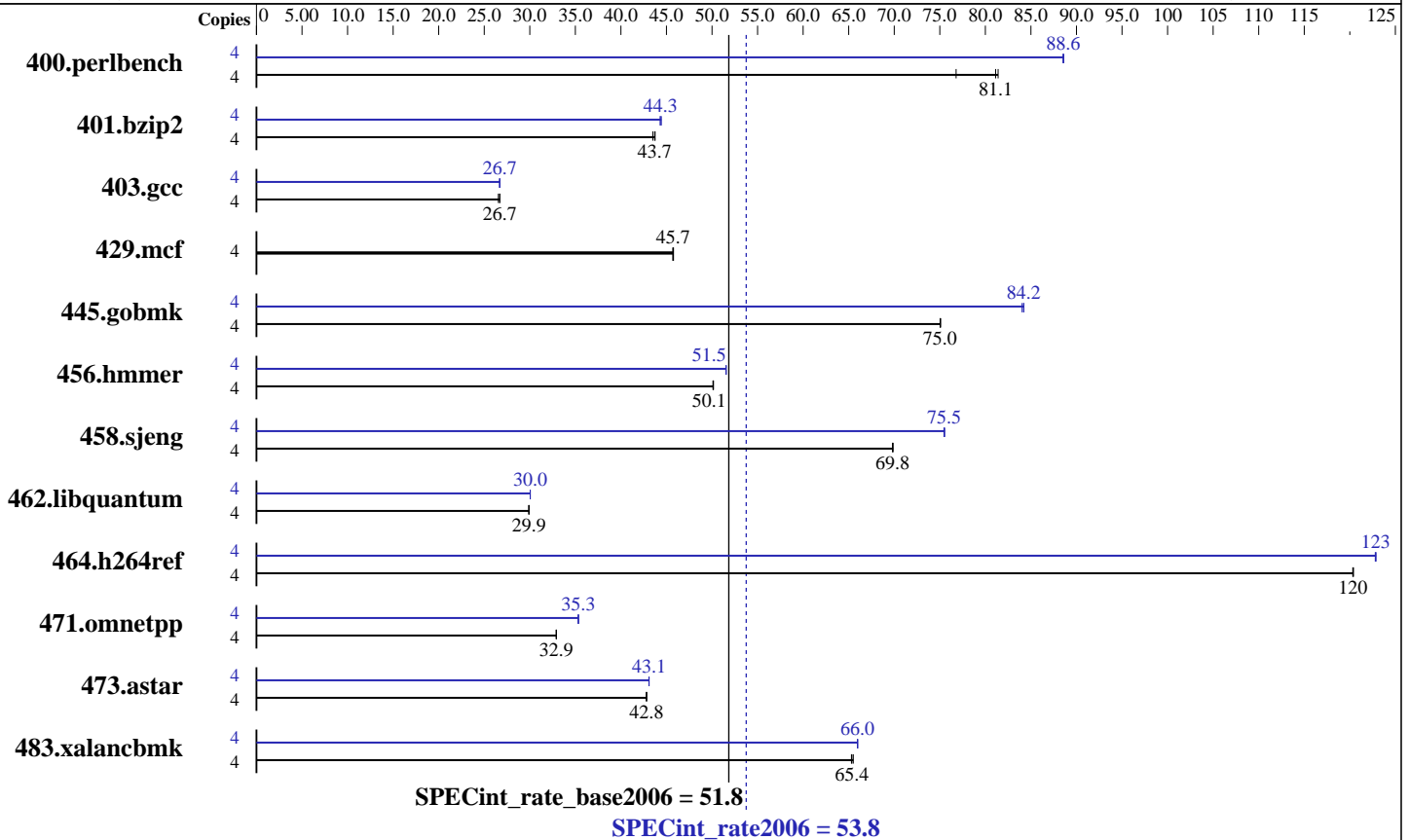
Test sponsor: HITACHI

Tested by: HITACHI

Test date: May-2007

Hardware Availability: Sep-2006

Software Availability: Dec-2006



#### Hardware

CPU Name: Intel Xeon 5160  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1, 2 chips  
 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: 16 GB(8 x 2 GB PC2-4200F)  
 Disk Subsystem: 1 x 73GB 10000rpm SAS  
 Other Hardware: None

#### Software

Operating System: Microsoft Windows Server 2003 R2, Enterprise x64 Edition  
 Compiler: Intel C++ Compiler for IA32 version 9.1 Build 20061103Z  
 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: MicroQuill SmartHeap Library 8.0



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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	4	509	76.8	<b>482</b>	<b>81.1</b>	480	81.4	4	441	88.6	<b>441</b>	<b>88.6</b>	441	88.5
401.bzip2	4	<b>883</b>	<b>43.7</b>	887	43.5	882	43.8	4	869	44.4	<b>871</b>	<b>44.3</b>	871	44.3
403.gcc	4	1206	26.7	<b>1206</b>	<b>26.7</b>	1213	26.6	4	1207	26.7	<b>1206</b>	<b>26.7</b>	1206	26.7
429.mcf	4	<b>798</b>	<b>45.7</b>	798	45.7	797	45.8	4	<b>798</b>	<b>45.7</b>	798	45.7	797	45.8
445.gobmk	4	<b>559</b>	<b>75.0</b>	559	75.0	559	75.1	4	499	84.0	498	84.2	<b>498</b>	<b>84.2</b>
456.hammer	4	745	50.1	<b>744</b>	<b>50.1</b>	744	50.1	4	724	51.5	<b>724</b>	<b>51.5</b>	724	51.5
458.sjeng	4	<b>693</b>	<b>69.8</b>	693	69.9	693	69.8	4	<b>641</b>	<b>75.5</b>	641	75.5	641	75.5
462.libquantum	4	2771	29.9	<b>2772</b>	<b>29.9</b>	2772	29.9	4	<b>2758</b>	<b>30.0</b>	2758	30.1	2759	30.0
464.h264ref	4	<b>735</b>	<b>120</b>	736	120	735	120	4	<b>721</b>	<b>123</b>	721	123	720	123
471.omnetpp	4	<b>760</b>	<b>32.9</b>	760	32.9	759	32.9	4	708	35.3	<b>707</b>	<b>35.3</b>	707	35.3
473.astar	4	656	42.8	656	42.8	<b>656</b>	<b>42.8</b>	4	<b>652</b>	<b>43.1</b>	652	43.1	652	43.1
483.xalancbmk	4	423	65.3	421	65.5	<b>422</b>	<b>65.4</b>	4	<b>418</b>	<b>66.0</b>	418	66.0	418	66.0

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: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

ONESTEP -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qcxx\_features  
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE



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## 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/ic91.html>

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

<http://www.spec.org/cpu2006/flags/ic91.xml>

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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