SPEC® CINT2006 Result

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HITACHI

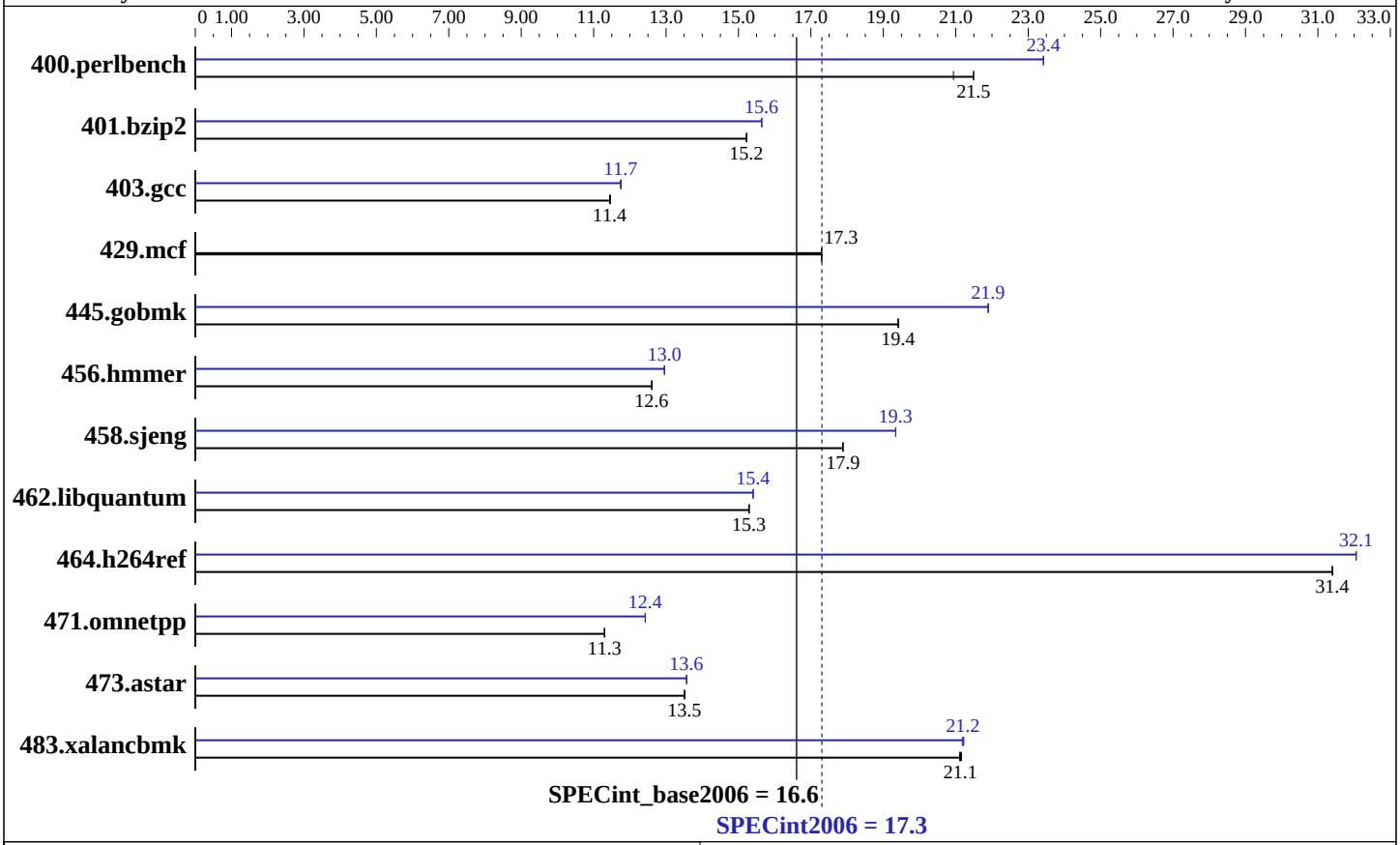
BladeSymphony BS1000 (Intel Xeon 5160)

SPECint®2006 = 17.3

SPECint_base2006 = 16.6

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:	8 GB(4 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	467	20.9	455	21.5	**455**	**21.5**	417	23.4	417	23.4	**417**	**23.4**
401.bzip2	634	15.2	634	15.2	**634**	**15.2**	617	15.6	**617**	**15.6**	617	15.6
403.gcc	**704**	**11.4**	704	11.4	702	11.5	685	11.8	**685**	**11.7**	686	11.7
429.mcf	527	17.3	527	17.3	**527**	**17.3**	527	17.3	527	17.3	**527**	**17.3**
445.gobmk	541	19.4	540	19.4	**540**	**19.4**	**479**	**21.9**	479	21.9	479	21.9
456.hmmer	740	12.6	**740**	**12.6**	740	12.6	720	13.0	720	13.0	**720**	**13.0**
458.sjeng	676	17.9	**677**	**17.9**	677	17.9	**626**	**19.3**	626	19.3	626	19.3
462.libquantum	1355	15.3	1355	15.3	**1355**	**15.3**	1345	15.4	1345	15.4	**1345**	**15.4**
464.h264ref	**705**	**31.4**	705	31.4	705	31.4	**690**	**32.1**	690	32.1	690	32.1
471.omnetpp	553	11.3	**553**	**11.3**	553	11.3	503	12.4	503	12.4	**503**	**12.4**
473.astar	**519**	**13.5**	520	13.5	519	13.5	517	13.6	**517**	**13.6**	517	13.6
483.xalancbmk	326	21.2	327	21.1	**327**	**21.1**	**325**	**21.2**	326	21.2	325	21.2

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
```

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`

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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