SPEC® CINT2006 Result

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HITACHI

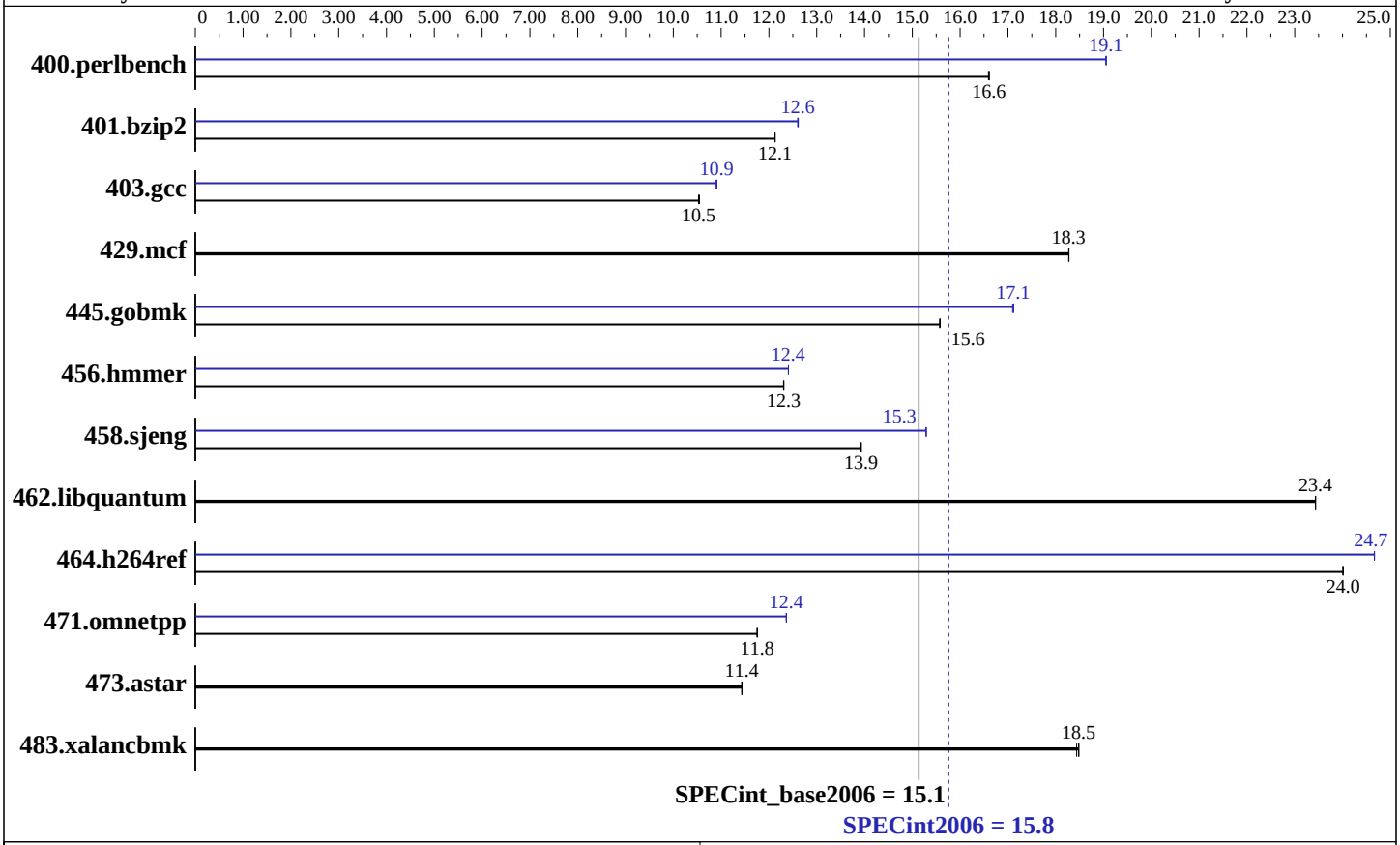
BladeSymphony BS320 (Intel Xeon E5345)

SPECint®2006 = 15.8

SPECint_base2006 = 15.1

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 E5345
CPU Characteristics:	1333 MHz system bus
CPU MHz:	2333
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:	8 GB(4 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	588	16.6	**588**	**16.6**	589	16.6	**513**	**19.1**	513	19.1	513	19.1
401.bzip2	796	12.1	796	12.1	**796**	**12.1**	**765**	**12.6**	766	12.6	765	12.6
403.gcc	**764**	**10.5**	763	10.5	765	10.5	738	10.9	**738**	**10.9**	739	10.9
429.mcf	499	18.3	**499**	**18.3**	499	18.3	499	18.3	**499**	**18.3**	499	18.3
445.gobmk	**673**	**15.6**	674	15.6	673	15.6	614	17.1	**613**	**17.1**	613	17.1
456.hmmer	758	12.3	758	12.3	**758**	**12.3**	**752**	**12.4**	752	12.4	752	12.4
458.sjeng	869	13.9	**869**	**13.9**	869	13.9	791	15.3	791	15.3	**791**	**15.3**
462.libquantum	884	23.4	884	23.4	**884**	**23.4**	884	23.4	884	23.4	**884**	**23.4**
464.h264ref	**922**	**24.0**	922	24.0	922	24.0	897	24.7	897	24.7	**897**	**24.7**
471.omnetpp	532	11.8	532	11.8	**532**	**11.8**	**505**	**12.4**	506	12.4	505	12.4
473.astar	614	11.4	614	11.4	**614**	**11.4**	614	11.4	614	11.4	**614**	**11.4**
483.xalancbmk	373	18.5	**373**	**18.5**	374	18.4	373	18.5	**373**	**18.5**	374	18.4

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: `basepeak = yes`

464.h264ref: Same as 400.perlbench

C++ benchmarks:

Continued on next page

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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Tested with SPEC CPU2006 v1.0.1.
Report generated on Tue Jul 22 12:24:23 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 21 August 2007.