SPEC® CINT2006 Result

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HITACHI

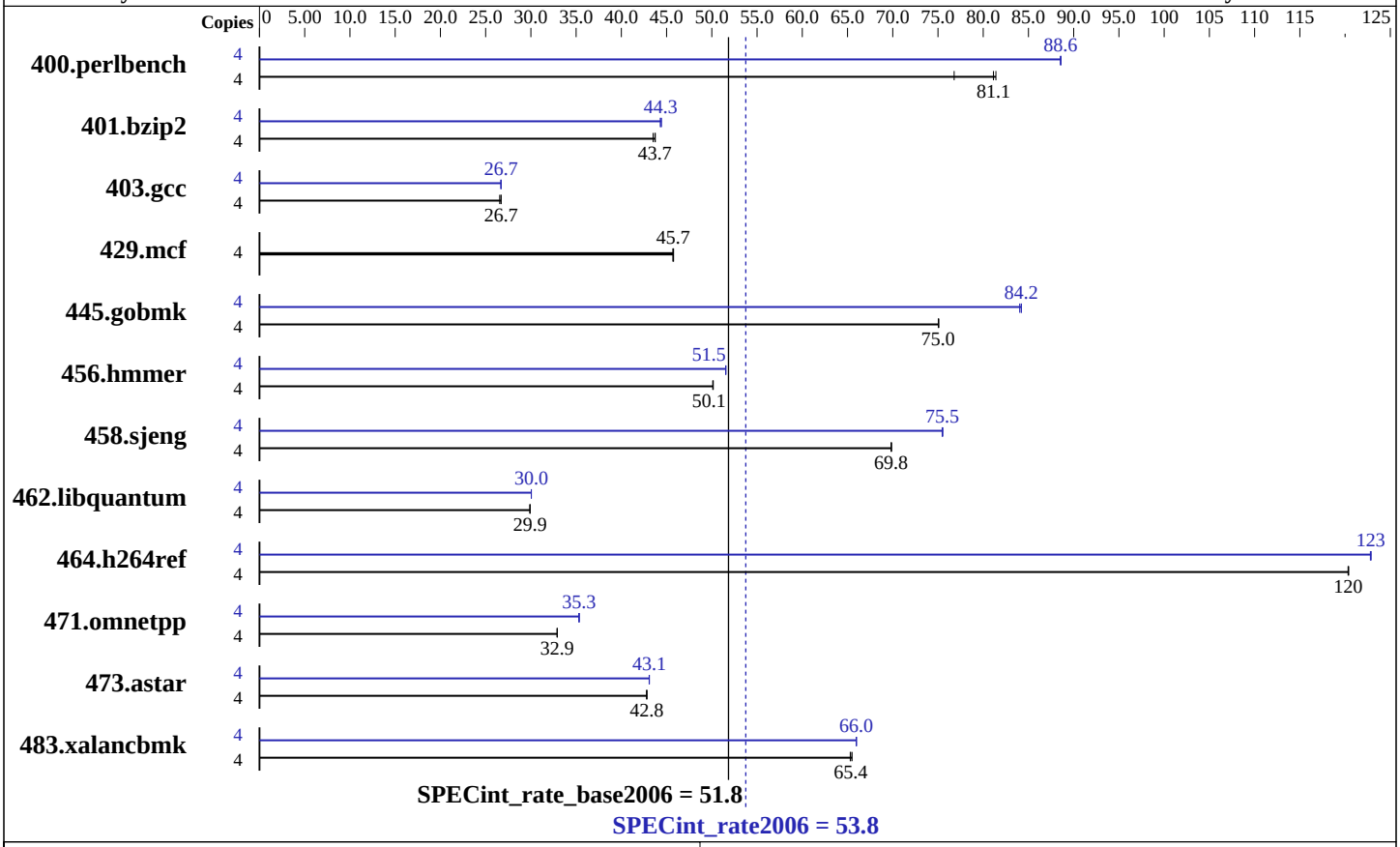
BladeSymphony BS1000 (Intel Xeon 5160)

SPECint®_rate2006 = 53.8

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

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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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 11:10:23 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 12 June 2007.