



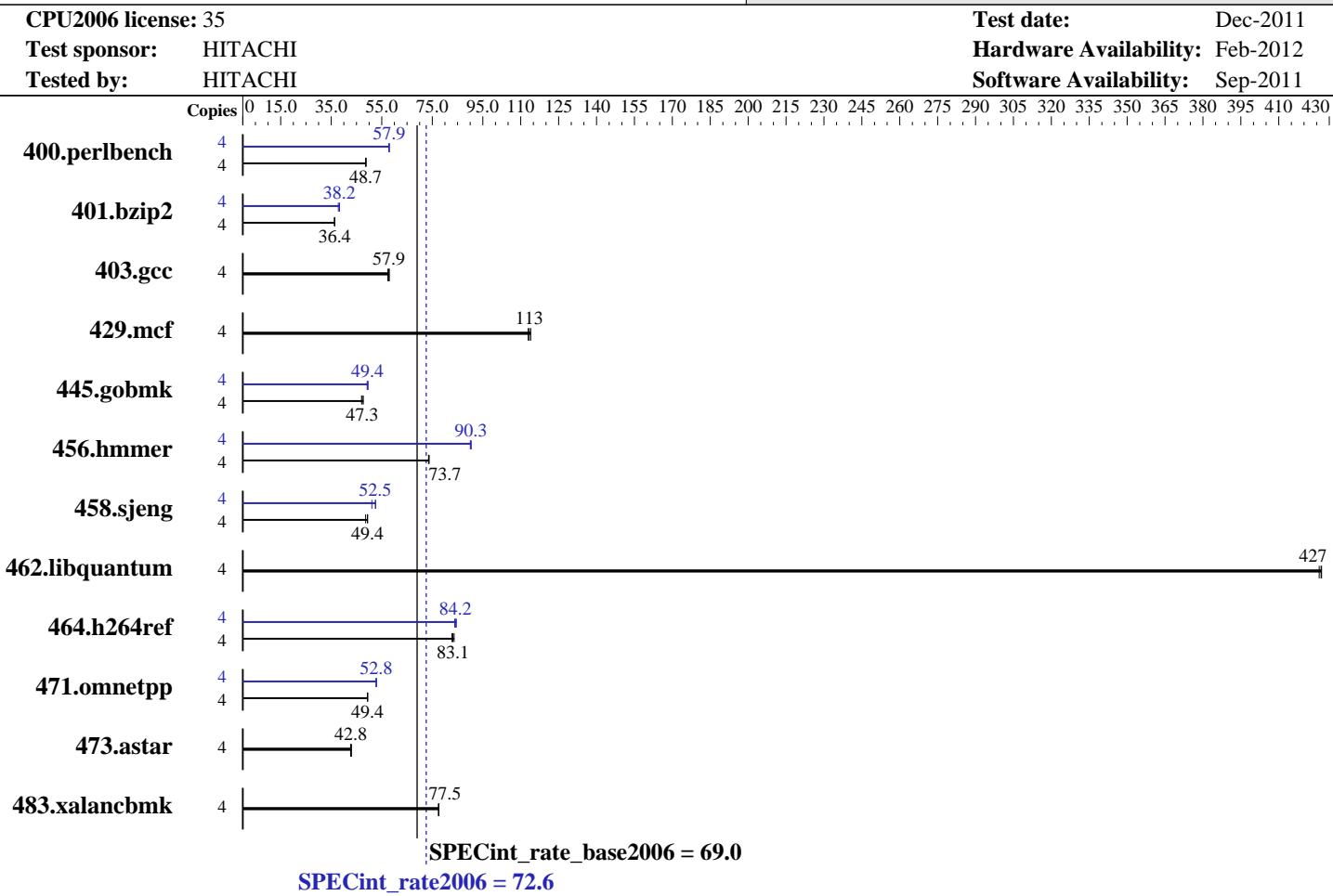
SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

HITACHI

HA8000-bd (Intel Xeon E3-1220L)

SPECint®_rate2006 = 72.6



Hardware		Software	
CPU Name:	Intel Xeon E3-1220L	Operating System:	Red Hat Enterprise Linux Server release 6.1, Kernel 2.6.32-131.0.15.el6.x86_64
CPU Characteristics:	Intel Turbo Boost Technology up to 3.40 GHz	Compiler:	C/C++: Version 12.1.0.225 of Intel C++ Studio XE for Linux
CPU MHz:	2200	Auto Parallel:	No
FPU:	Integrated	File System:	ext4
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip, 2 threads/core	System State:	Run level 3 (multi-user)
CPU(s) orderable:	1 chip	Base Pointers:	32-bit
Primary Cache:	32 KB I + 32 KB D on chip per core	Peak Pointers:	32/64-bit
Secondary Cache:	256 KB I+D on chip per core	Other Software:	Microquill SmartHeap V9.01
L3 Cache:	3 MB I+D on chip per chip		
Other Cache:	None		
Memory:	8 GB		
Disk Subsystem:	(2 x 4 GB 2Rx8 PC3-10600E-9, ECC)		
Other Hardware:	1 x 250 GB SATA2, 7200 RPM		



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

HITACHI

HA8000-bd (Intel Xeon E3-1220L)

SPECint_rate2006 = 72.6

CPU2006 license: 35

Test date: Dec-2011

Hardware Availability: Feb-2012

Software Availability: Sep-2011

Test sponsor: HITACHI

Tested by: HITACHI

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	801	48.8	804	48.6	803	48.7	4	676	57.8	674	58.0	675	57.9
401.bzip2	4	1061	36.4	1061	36.4	1065	36.2	4	1009	38.3	1010	38.2	1021	37.8
403.gcc	4	561	57.4	556	57.9	556	57.9	4	561	57.4	556	57.9	556	57.9
429.mcf	4	323	113	320	114	322	113	4	323	113	320	114	322	113
445.gobmk	4	893	47.0	887	47.3	880	47.7	4	853	49.2	847	49.6	849	49.4
456.hammer	4	508	73.5	506	73.7	506	73.7	4	413	90.3	415	90.0	413	90.4
458.sjeng	4	980	49.4	996	48.6	981	49.4	4	921	52.6	922	52.5	948	51.1
462.libquantum	4	195	426	194	427	194	427	4	195	426	194	427	194	427
464.h264ref	4	1058	83.6	1065	83.1	1069	82.8	4	1055	83.9	1047	84.5	1051	84.2
471.omnetpp	4	507	49.3	506	49.4	506	49.4	4	472	52.9	474	52.7	473	52.8
473.astar	4	658	42.7	656	42.8	653	43.0	4	658	42.7	656	42.8	653	43.0
483.xalancbmk	4	356	77.5	356	77.6	356	77.5	4	356	77.5	356	77.6	356	77.5

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

Submit Notes

The taskset mechanism was used to bind copies to processors. The config file option 'submit' was used to generate taskset commands to bind each copy to a specific processor. For details, please see the config file.

Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"

General Notes

Environment variables set by runspec before the start of the run:
LD_LIBRARY_PATH = "/home/cpu2006/libs/32:/home/cpu2006/libs/64"

Binaries compiled on a system with 1x Core i7-860 CPU + 8GB memory using RHEL5.5

Transparent Huge Pages enabled with:
echo always > /sys/kernel/mm/redhat_transparent_hugepage/enable

Base Compiler Invocation

C benchmarks:
icc -m32

C++ benchmarks:
icpc -m32



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

HITACHI

HA8000-bd (Intel Xeon E3-1220L)

SPECint_rate2006 = 72.6

CPU2006 license: 35

Test sponsor: HITACHI

Tested by: HITACHI

Test date: Dec-2011

Hardware Availability: Feb-2012

Software Availability: Sep-2011

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

-xAVX -ipo -O3 -no-prec-div -opt-prefetch -opt-mem-layout-trans=3

C++ benchmarks:

-xAVX -ipo -O3 -no-prec-div -opt-prefetch -opt-mem-layout-trans=3
-Wl,-z,muldefs -L/smartheap -lsmartheap

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

icc -m32

400.perlbench: icc -m64

401.bzip2: icc -m64

456.hmmer: icc -m64

458.sjeng: icc -m64

C++ benchmarks:

icpc -m32

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

HITACHI

HA8000-bd (Intel Xeon E3-1220L)

SPECint_rate2006 = 72.6

SPECint_rate_base2006 = 69.0

CPU2006 license: 35

Test sponsor: HITACHI

Tested by: HITACHI

Test date: Dec-2011

Hardware Availability: Feb-2012

Software Availability: Sep-2011

Peak Portability Flags (Continued)

462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -auto-ilp32

401.bzip2: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -opt-prefetch
-auto-ilp32 -ansi-alias

403.gcc: basepeak = yes

429.mcf: basepeak = yes

445.gobmk: -xAVX(pass 2) -prof-gen(pass 1) -prof-use(pass 2)
-ansi-alias -opt-mem-layout-trans=3

456.hmmer: -xAVX -ipo -O3 -no-prec-div -unroll12 -auto-ilp32

458.sjeng: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll14
-auto-ilp32

462.libquantum: basepeak = yes

464.h264ref: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll12
-ansi-alias

C++ benchmarks:

471.omnetpp: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -ansi-alias
-opt-ra-region-strategy=block -Wl,-z,muldefs
-L/smartheap -lsmartheap

473.astar: basepeak = yes

483.xalancbmk: basepeak = yes



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

HITACHI

HA8000-bd (Intel Xeon E3-1220L)

SPECint_rate2006 = 72.6

SPECint_rate_base2006 = 69.0

CPU2006 license: 35

Test sponsor: HITACHI

Tested by: HITACHI

Test date: Dec-2011

Hardware Availability: Feb-2012

Software Availability: Sep-2011

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.html>
<http://www.spec.org/cpu2006/flags/PlatformHitachi-V1.2.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.xml>
<http://www.spec.org/cpu2006/flags/PlatformHitachi-V1.2.xml>

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.2.

Report generated on Thu Jul 24 03:26:32 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 6 February 2012.