



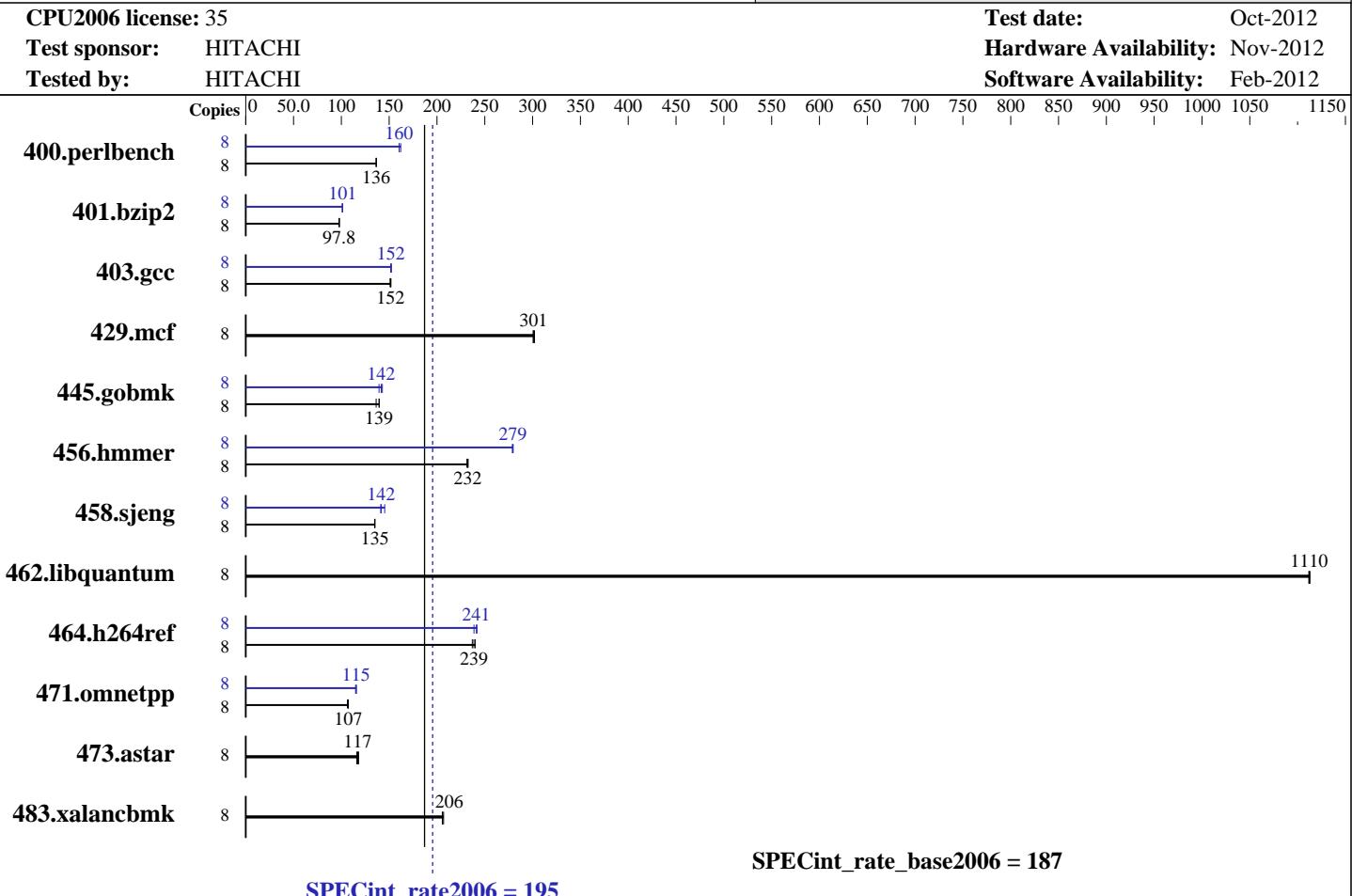
SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

HITACHI

Compute Blade 520H (Intel Xeon E5-2637)

SPECint®_rate2006 = 195



Hardware		Software	
CPU Name:	Intel Xeon E5-2637	Operating System:	Red Hat Enterprise Linux Server release 6.2, Kernel 2.6.32-220.4.2.el6.x86_64
CPU Characteristics:	Intel Turbo Boost Technology up to 3.50 GHz	Compiler:	C/C++: Version 12.1.0.225 of Intel C++ Studio XE for Linux
CPU MHz:	3000	Auto Parallel:	No
FPU:	Integrated	File System:	ext4
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip, 2 threads/core	System State:	Run level 3 (multi-user)
CPU(s) orderable:	1, 2 chips	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:	5 MB I+D on chip per chip		
Other Cache:	None		
Memory:	128 GB (16 x 8 GB 2Rx4 PC3L-12800R-11, ECC)		
Disk Subsystem:	1 x 146 GB SAS, 15000 RPM		
Other Hardware:	None		



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

HITACHI

Compute Blade 520H (Intel Xeon E5-2637)

SPECint_rate2006 = 195

CPU2006 license: 35

Test date: Oct-2012

Test sponsor: HITACHI

Hardware Availability: Nov-2012

Tested by: HITACHI

Software Availability: Feb-2012

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	573	136	573	136	573	137	8	482	162	487	160	487	160
401.bzip2	8	789	97.9	791	97.6	790	97.8	8	766	101	762	101	762	101
403.gcc	8	427	151	424	152	425	152	8	423	152	424	152	425	152
429.mcf	8	243	301	243	301	242	302	8	243	301	243	301	242	302
445.gobmk	8	615	136	602	139	601	140	8	587	143	602	139	592	142
456.hammer	8	321	233	323	231	321	232	8	268	279	267	279	267	280
458.sjeng	8	718	135	717	135	717	135	8	666	145	686	141	683	142
462.libquantum	8	149	1110	149	1110	149	1110	8	149	1110	149	1110	149	1110
464.h264ref	8	742	239	747	237	738	240	8	734	241	742	239	732	242
471.omnetpp	8	470	106	466	107	466	107	8	433	115	435	115	432	116
473.astar	8	484	116	476	118	480	117	8	484	116	476	118	480	117
483.xalancbmk	8	269	206	268	206	267	207	8	269	206	268	206	267	207

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

Submit Notes

The numactl mechanism was used to bind copies to processors. The config file option 'submit' was used to generate numactl 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"

Platform Notes

```
Sysinfo program /home/cpu2006/config/sysinfo.rev6800
$Rev: 6800 $ $Date::: 2011-10-11 #$
running on localhost.localdomain Sat Oct 20 06:59:00 2012
```

This section contains SUT (System Under Test) info as seen by some common utilities. To remove or add to this section, see:

<http://www.spec.org/cpu2006/Docs/config.html#sysinfo>

```
From /proc/cpuinfo
model name : Intel(R) Xeon(R) CPU E5-2637 0 @ 3.00GHz
        2 "physical id"s (chips)
        8 "processors"
cores, siblings (Caution: counting these is hw and system dependent. The
following excerpts from /proc/cpuinfo might not be reliable. Use with
caution.)
        cpu cores : 2
        siblings  : 4
```

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

HITACHI

Compute Blade 520H (Intel Xeon E5-2637)

SPECint_rate2006 = 195

CPU2006 license: 35

Test sponsor: HITACHI

Tested by: HITACHI

Test date: Oct-2012

Hardware Availability: Nov-2012

Software Availability: Feb-2012

Platform Notes (Continued)

```
physical 0: cores 0 1
physical 1: cores 0 1
cache size : 5120 KB

From /proc/meminfo
MemTotal:      132136072 kB
HugePages_Total:      0
Hugepagesize:     2048 kB

/usr/bin/lsb_release -d
Red Hat Enterprise Linux Server release 6.2 (Santiago)

From /etc/*release* /etc/*version*
redhat-release: Red Hat Enterprise Linux Server release 6.2 (Santiago)
system-release: Red Hat Enterprise Linux Server release 6.2 (Santiago)
system-release-cpe: cpe:/o:redhat:enterprise_linux:6server:ga:server

uname -a:
Linux localhost.localdomain 2.6.32-220.4.2.el6.x86_64 #1 SMP Mon Feb 6
16:39:28 EST 2012 x86_64 x86_64 x86_64 GNU/Linux

run-level 3 Oct 20 06:53

(End of data from sysinfo program)
```

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
Filesystem page cache cleared with:
echo 1> /proc/sys/vm/drop_caches
runspec command invoked through numactl i.e.:
numactl --interleave=all runspec <etc>

HITACHI BladeSymphony BS520H and HITACHI Compute Blade 520H are electronically equivalent.
The results have been measured on a HITACHI BladeSymphony BS520H.

Base Compiler Invocation

C benchmarks:
icc -m32

C++ benchmarks:
icpc -m32



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

HITACHI

Compute Blade 520H (Intel Xeon E5-2637)

SPECint_rate2006 = 195

CPU2006 license: 35

Test sponsor: HITACHI

Tested by: HITACHI

Test date: Oct-2012

Hardware Availability: Nov-2012

Software Availability: Feb-2012

Base Portability Flags

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

Base Optimization Flags

C benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -opt-mem-layout-trans=3

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -opt-mem-layout-trans=3
-Wl,-z,muldefs -L/smarterheap -lsmarterheap

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

Compute Blade 520H (Intel Xeon E5-2637)

SPECint_rate2006 = 195

CPU2006 license: 35

Test sponsor: HITACHI

Tested by: HITACHI

Test date: Oct-2012

Hardware Availability: Nov-2012

Software Availability: Feb-2012

Peak Portability Flags (Continued)

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

Peak Optimization Flags

C benchmarks:

400.perlbench: -xSSE4.2(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: -xSSE4.2(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: -xSSE4.2 -ipo -O3 -no-prec-div

429.mcf: basepeak = yes

445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2)
-ansi-alias -opt-mem-layout-trans=3

456.hmmr: -xSSE4.2 -ipo -O3 -no-prec-div -unroll2 -auto-ilp32

458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-unroll4 -auto-ilp32

462.libquantum: basepeak = yes

464.h264ref: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-unroll2 -ansi-alias

C++ benchmarks:

471.omnetpp: -xSSE4.2(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

Compute Blade 520H (Intel Xeon E5-2637)

SPECint_rate2006 = 195

CPU2006 license: 35

Test sponsor: HITACHI

Tested by: HITACHI

Test date: Oct-2012

Hardware Availability: Nov-2012

Software Availability: Feb-2012

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-linux64.20120829.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-linux64.20120829.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 14:06:45 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 20 November 2012.