



SPEC[®] CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

HITACHI
HA8000-bd (Intel Core i7-610E)

SPECint[®]_rate2006 = 53.0

SPECint_rate_base2006 = 49.2

CPU2006 license: 872

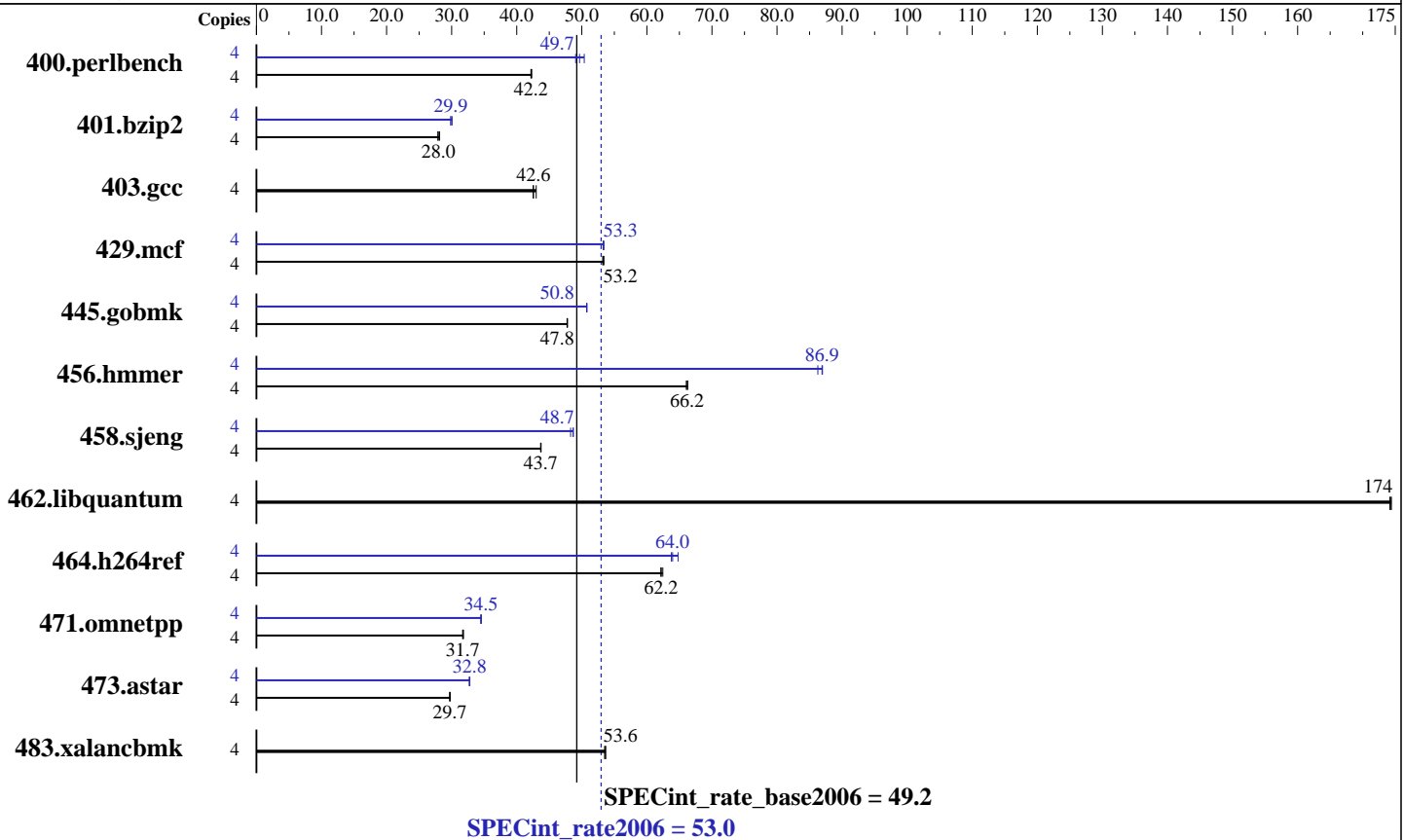
Test sponsor: HITACHI

Tested by: HITACHI

Test date: May-2010

Hardware Availability: Jul-2010

Software Availability: Dec-2009



Hardware

CPU Name: Intel Core i7-610E
 CPU Characteristics: Intel Turbo Boost Technology disabled
 CPU MHz: 2533
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip, 2 threads/core
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 256 KB I+D on chip per core
 L3 Cache: 4 MB I+D on chip per chip
 Other Cache: None
 Memory: 8 GB(2 x 4 GB PC3-8500U, 2 rank, CL7)
 Disk Subsystem: 1 x 160 GB 7200 rpm SATA2
 Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux Server release 5.4, Advanced Platform, Kernel 2.6.18-164.el5 on an x86_64
 Compiler: Intel C++ Compiler 11.1 for Linux Build 20091012 Package ID: l_cproc_p_11.1.059
 Auto Parallel: No
 File System: ext3
 System State: Multi-user run level 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Microquill SmartHeap V8.1



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

HITACHI

SPECint_rate2006 = 53.0

HA8000-bd (Intel Core i7-610E)

SPECint_rate_base2006 = 49.2

CPU2006 license: 872
Test sponsor: HITACHI
Tested by: HITACHI

Test date: May-2010
Hardware Availability: Jul-2010
Software Availability: Dec-2009

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	924	42.3	926	42.2	926	42.2	4	787	49.7	797	49.1	776	50.4
401.bzip2	4	1385	27.9	1381	28.0	1371	28.2	4	1292	29.9	1292	29.9	1284	30.1
403.gcc	4	749	43.0	756	42.6	757	42.5	4	749	43.0	756	42.6	757	42.5
429.mcf	4	685	53.2	685	53.2	683	53.4	4	684	53.3	683	53.4	685	53.3
445.gobmk	4	878	47.8	879	47.7	879	47.8	4	826	50.8	827	50.8	827	50.8
456.hammer	4	563	66.3	564	66.2	565	66.1	4	433	86.3	429	87.0	429	86.9
458.sjeng	4	1106	43.7	1108	43.7	1108	43.7	4	1002	48.3	994	48.7	994	48.7
462.libquantum	4	476	174	475	174	476	174	4	476	174	475	174	476	174
464.h264ref	4	1424	62.1	1417	62.4	1423	62.2	4	1384	64.0	1389	63.7	1366	64.8
471.omnetpp	4	786	31.8	789	31.7	788	31.7	4	723	34.6	725	34.5	725	34.5
473.astar	4	945	29.7	945	29.7	943	29.8	4	857	32.8	856	32.8	859	32.7
483.xalancbmk	4	514	53.7	516	53.5	515	53.6	4	514	53.7	516	53.5	515	53.6

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

Submit Notes

The config file option 'submit' was used.
'/usr/bin/numactl' used to bind processes to CPUs

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

Base Compiler Invocation

C benchmarks:
icc -m32

C++ benchmarks:
icpc -m32

Base Portability Flags

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



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

HITACHI

SPECint_rate2006 = 53.0

HA8000-bd (Intel Core i7-610E)

SPECint_rate_base2006 = 49.2

CPU2006 license: 872

Test sponsor: HITACHI

Tested by: HITACHI

Test date: May-2010

Hardware Availability: Jul-2010

Software Availability: Dec-2009

Base Optimization Flags

C benchmarks:

`-xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch`

C++ benchmarks:

`-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/home/bsc/smartheap/lib -lsmartheap`

Base Other Flags

C benchmarks:

`403.gcc: -Dalloca=_alloca`

Peak Compiler Invocation

C benchmarks (except as noted below):

`icc -m32`

`401.bzip2: icc -m64`

`456.hmmer: icc -m64`

`458.sjeng: icc -m64`

C++ benchmarks (except as noted below):

`icpc -m32`

`473.astar: icpc -m64`

Peak Portability Flags

`400.perlbench: -DSPEC_CPU_LINUX_IA32`

`401.bzip2: -DSPEC_CPU_LP64`

`456.hmmer: -DSPEC_CPU_LP64`

`458.sjeng: -DSPEC_CPU_LP64`

`462.libquantum: -DSPEC_CPU_LINUX`

`473.astar: -DSPEC_CPU_LP64`

`483.xalancbmk: -DSPEC_CPU_LINUX`



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

HITACHI

SPECint_rate2006 = 53.0

HA8000-bd (Intel Core i7-610E)

SPECint_rate_base2006 = 49.2

CPU2006 license: 872

Test sponsor: HITACHI

Tested by: HITACHI

Test date: May-2010

Hardware Availability: Jul-2010

Software Availability: Dec-2009

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) -static(pass 2)
 -prof-use(pass 2) -ansi-alias

401.bzip2: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
 -O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
 -prof-use(pass 2) -opt-prefetch -ansi-alias -auto-ilp32

403.gcc: basepeak = yes

429.mcf: -xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch

445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2) -O2
 -ipo -no-prec-div -ansi-alias

456.hmmer: -xSSE4.2 -ipo -O3 -no-prec-div -static -unroll2
 -ansi-alias -auto-ilp32

458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
 -O3(pass 2) -no-prec-div(pass 2) -static(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) -static(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/home/bsc/smartheap/lib -lsmartheap

473.astar: -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=routine -Wl,-z,muldefs
 -L/home/bsc/smartheap/lib -lsmartheap64

483.xalanbmk: basepeak = yes

Peak Other Flags

C benchmarks:

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

HITACHI

SPECint_rate2006 = 53.0

HA8000-bd (Intel Core i7-610E)

SPECint_rate_base2006 = 49.2

CPU2006 license: 872

Test sponsor: HITACHI

Tested by: HITACHI

Test date: May-2010

Hardware Availability: Jul-2010

Software Availability: Dec-2009

Peak Other Flags (Continued)

403.gcc: -Dalloca=_alloca

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.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 v1.1.
Report generated on Wed Jul 23 13:19:59 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 8 July 2010.