



SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/i120Ra-e1
(Intel Xeon L5215)

SPECint_rate2006 = 29.9

SPECint_rate_base2006 = 27.9

CPU2006 license: 9006

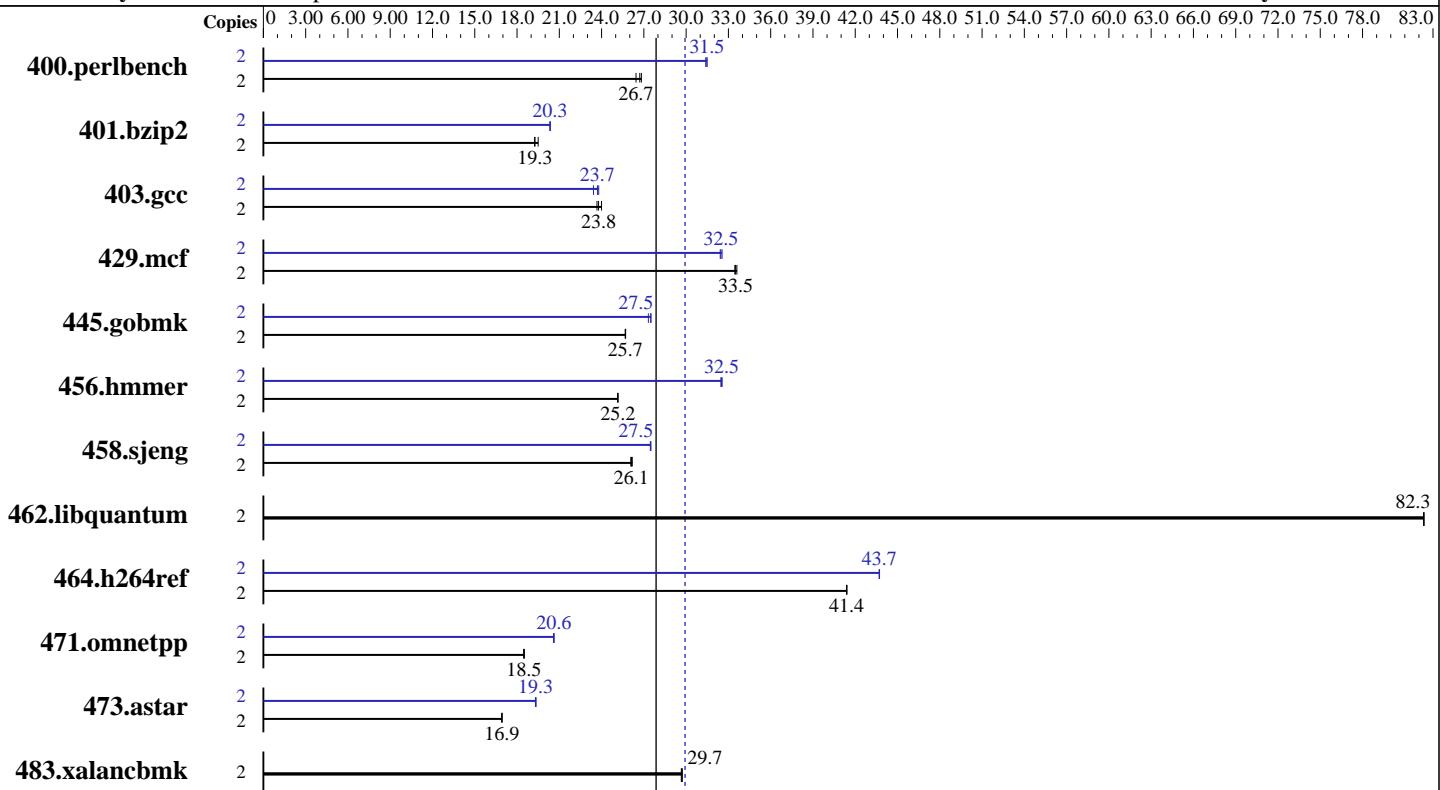
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Feb-2009

Hardware Availability: Jan-2009

Software Availability: Nov-2008



SPECint_rate_base2006 = 27.9

SPECint_rate2006 = 29.9

Hardware

CPU Name: Intel Xeon L5215
CPU Characteristics: 1066 MHz system bus
CPU MHz: 1867
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
CPU(s) orderable: 1,2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 6 MB I+D on chip per chip
L3 Cache: None
Other Cache: None
Memory: 16 GB (4x4 GB PC2-5300P, 2 rank, CL5-5-5, ECC)
Disk Subsystem: 1x80 GB SATAII, 7200 RPM
Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP2, Kernel 2.6.16.60-0.21-smp
Compiler: Intel C++ Compiler 11.0 for Linux Build 20081105 Package ID: l_cproc_p_11.0.074
Auto Parallel: No
File System: ReiserFS
System State: Run level 3 (multi-user)
Base Pointers: 32-bit
Peak Pointers: 32/64-bit
Other Software: MicroQuill SmartHeap Library 8.1 Binutils 2.18.50.0.7.20080502



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/i120Ra-e1
(Intel Xeon L5215)

SPECint_rate2006 = 29.9

SPECint_rate_base2006 = 27.9

CPU2006 license: 9006

Test date: Feb-2009

Test sponsor: NEC Corporation

Hardware Availability: Jan-2009

Tested by: NEC Corporation

Software Availability: Nov-2008

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	728	26.8	739	26.4	<u>732</u>	<u>26.7</u>	2	<u>621</u>	<u>31.5</u>	621	31.5	623	31.4
401.bzip2	2	1003	19.2	990	19.5	<u>1001</u>	<u>19.3</u>	2	948	20.3	949	20.3	<u>949</u>	<u>20.3</u>
403.gcc	2	<u>677</u>	<u>23.8</u>	680	23.7	671	24.0	2	<u>679</u>	<u>23.7</u>	677	23.8	687	23.4
429.mcf	2	<u>544</u>	<u>33.5</u>	545	33.5	543	33.6	2	<u>562</u>	<u>32.5</u>	563	32.4	560	32.6
445.gobmk	2	<u>817</u>	<u>25.7</u>	817	25.7	816	25.7	2	768	27.3	763	27.5	<u>763</u>	<u>27.5</u>
456.hmmer	2	742	25.2	<u>742</u>	<u>25.2</u>	742	25.2	2	575	32.5	573	32.6	<u>574</u>	<u>32.5</u>
458.sjeng	2	925	26.2	928	26.1	<u>926</u>	<u>26.1</u>	2	<u>881</u>	<u>27.5</u>	881	27.5	880	27.5
462.libquantum	2	<u>503</u>	<u>82.3</u>	503	82.4	503	82.3	2	<u>503</u>	<u>82.3</u>	503	82.4	503	82.3
464.h264ref	2	<u>1069</u>	<u>41.4</u>	1069	41.4	1069	41.4	2	<u>1013</u>	<u>43.7</u>	1013	43.7	1012	43.7
471.omnetpp	2	<u>676</u>	<u>18.5</u>	675	18.5	677	18.5	2	<u>606</u>	<u>20.6</u>	607	20.6	606	20.6
473.astar	2	830	16.9	<u>829</u>	<u>16.9</u>	829	16.9	2	726	19.4	<u>727</u>	<u>19.3</u>	727	19.3
483.xalancbmk	2	465	29.7	<u>465</u>	<u>29.7</u>	464	29.7	2	465	29.7	<u>465</u>	<u>29.7</u>	464	29.7

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.
taskset was used to bind processes to cores

Operating System Notes

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

Platform Notes

Bios settings:

Hardware Prefetcher:

Adjacent Cache Line Prefetch:

Enabled

Enabled

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/i120Ra-e1
(Intel Xeon L5215)

SPECint_rate2006 = 29.9

SPECint_rate_base2006 = 27.9

CPU2006 license: 9006

Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Feb-2009

Hardware Availability: Jan-2009

Software Availability: Nov-2008

Base Portability Flags

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

Base Optimization Flags

C benchmarks:

-xSSE4.1 -ipo -O3 -no-prec-div -static -inline-calloc
-opt-malloc-options=3 -opt-prefetch

C++ benchmarks:

-xSSE4.1 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/opt/SmartHeap_8.1/lib -lsmartheap

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

icc

401.bzip2: /opt/intel/Compiler/11.0/074/bin/intel64/icc
-L/opt/intel/Compiler/11.0/074/ipp/em64t/lib
-I/opt/intel/Compiler/11.0/074/ipp/em64t/include

456.hmmr: /opt/intel/Compiler/11.0/074/bin/intel64/icc
-L/opt/intel/Compiler/11.0/074/ipp/em64t/lib
-I/opt/intel/Compiler/11.0/074/ipp/em64t/include

C++ benchmarks:

icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmr: -DSPEC_CPU_LP64

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/i120Ra-e1
(Intel Xeon L5215)

SPECint_rate2006 = 29.9

SPECint_rate_base2006 = 27.9

CPU2006 license: 9006

Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Feb-2009

Hardware Availability: Jan-2009

Software Availability: Nov-2008

Peak Portability Flags (Continued)

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

Peak Optimization Flags

C benchmarks:

```
400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
               -no-prec-div -static -ansi-alias -opt-prefetch

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

403.gcc: -xSSE4.1 -ipo -O3 -no-prec-div -static -inline-calloc
          -opt-malloc-options=3

429.mcf: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
               -no-prec-div -static -opt-prefetch

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

456.hmmr: -xSSE4.1 -ipo -O3 -no-prec-div -static -unroll12
               -ansi-alias

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
               -no-prec-div -static -unroll14

462.libquantum: basepeak = yes

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
               -no-prec-div -static -unroll12 -ansi-alias
```

C++ benchmarks:

```
471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
               -no-prec-div -ansi-alias -opt-ra-region-strategy=block
               -Wl,-z,muldefs -L/opt/SmartHeap_8.1/lib -lsmartheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
               -no-prec-div -ansi-alias -opt-ra-region-strategy=routine
               -Wl,-z,muldefs -L/opt/SmartHeap_8.1/lib -lsmartheap

483.xalancbmk: basepeak = yes
```



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/i120Ra-e1
(Intel Xeon L5215)

SPECint_rate2006 = 29.9

SPECint_rate_base2006 = 27.9

CPU2006 license: 9006

Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Feb-2009

Hardware Availability: Jan-2009

Software Availability: Nov-2008

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-ic11.0-int-linux64-revE.html>

<http://www.spec.org/cpu2006/flags/NEC-Intel-Linux-Settings-flags-revB.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revE.xml>

<http://www.spec.org/cpu2006/flags/NEC-Intel-Linux-Settings-flags-revB.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 Tue Jul 22 23:02:32 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 3 March 2009.