



SPEC® CINT2006 Result

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NEC Corporation

Express5800/120Li
(Intel Xeon processor 5110)

SPECint®_rate2006 = 40.2

SPECint_rate_base2006 = 37.0

CPU2006 license: 9006

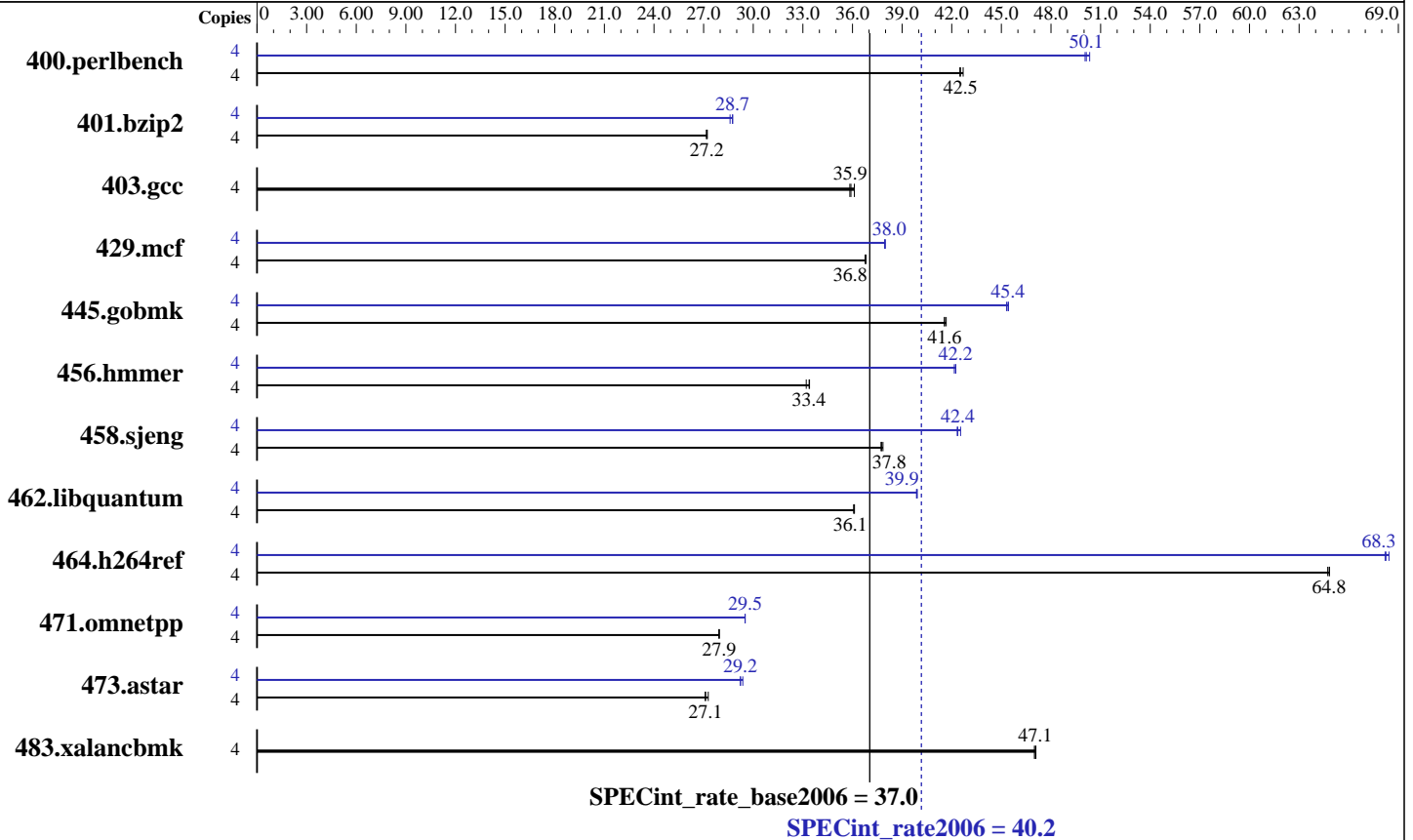
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Oct-2007

Hardware Availability: May-2007

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon 5110
 CPU Characteristics: 1.60 GHz, 4 MB L2, 1066 MHz bus
 CPU MHz: 1600
 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: 8 GB (8x1 GB PC2-5300F, 2 rank, CL5-5-5, ECC)
 Disk Subsystem: 1x73.2 GB SAS, 15000RPM
 Other Hardware: None

Software

Operating System: 64-Bit SUSE LINUX Enterprise Server 10, Kernel 2.6.16.21-0.8-smp for x86_64
 Compiler: Intel C++ Compiler for IA32/EM64T application, Version 10.0 - Build 20070426 Package ID: l_cc_p_10.0.023
 Auto Parallel: No
 File System: ext2
 System State: Multiuser, Runlevel 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap library 8.1 binutils-2.17.tar.gz, Version 2.17



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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	915	42.7	920	42.5	<u>919</u>	<u>42.5</u>	4	<u>779</u>	<u>50.1</u>	781	50.1	776	50.3
401.bzip2	4	1418	27.2	1421	27.2	<u>1420</u>	<u>27.2</u>	4	1350	28.6	<u>1343</u>	<u>28.7</u>	1342	28.8
403.gcc	4	898	35.8	892	36.1	<u>897</u>	<u>35.9</u>	4	898	35.8	892	36.1	<u>897</u>	<u>35.9</u>
429.mcf	4	991	36.8	<u>991</u>	<u>36.8</u>	992	36.8	4	961	38.0	<u>961</u>	<u>38.0</u>	961	37.9
445.gobmk	4	1007	41.7	1010	41.6	<u>1010</u>	<u>41.6</u>	4	924	45.4	926	45.3	<u>924</u>	<u>45.4</u>
456.hmmmer	4	1124	33.2	<u>1118</u>	<u>33.4</u>	1117	33.4	4	883	42.2	885	42.2	<u>884</u>	<u>42.2</u>
458.sjeng	4	<u>1282</u>	<u>37.8</u>	1279	37.8	1283	37.7	4	1138	42.5	<u>1142</u>	<u>42.4</u>	1143	42.3
462.libquantum	4	2295	36.1	2297	36.1	<u>2297</u>	<u>36.1</u>	4	2079	39.9	<u>2078</u>	<u>39.9</u>	2076	39.9
464.h264ref	4	<u>1366</u>	<u>64.8</u>	1368	64.7	1365	64.8	4	1294	68.4	<u>1297</u>	<u>68.3</u>	1298	68.2
471.omnetpp	4	895	27.9	<u>895</u>	<u>27.9</u>	895	27.9	4	847	29.5	<u>847</u>	<u>29.5</u>	847	29.5
473.astar	4	<u>1035</u>	<u>27.1</u>	1036	27.1	1029	27.3	4	961	29.2	956	29.4	<u>961</u>	<u>29.2</u>
483.xalancbmk	4	587	47.0	586	47.1	<u>587</u>	<u>47.1</u>	4	587	47.0	586	47.1	<u>587</u>	<u>47.1</u>

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

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
'/usr/bin/taskset' used to bind processes to CPUs

General Notes

All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmmer, for peak, are compiled in 64-bit mode

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Base Portability Flags

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

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Base Portability Flags (Continued)

483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

-fast

C++ benchmarks:

-xT -ipo -O3 -no-prec-div -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/cce/10.0.023/bin/icc
-L/opt/intel/cce/10.0.023/lib
-I/opt/intel/cce/10.0.023/include

456.hmmer: /opt/intel/cce/10.0.023/bin/icc
-L/opt/intel/cce/10.0.023/lib
-I/opt/intel/cce/10.0.023/include

C++ benchmarks:

icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX



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Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias
-prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast

403.gcc: basepeak = yes

429.mcf: -fast -prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo
-no-prec_div -ansi-alias

456.hmmer: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -Ob0
-prefetch -opt-streaming-stores always

464.h264ref: Same as 456.hmmer

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec_div -ansi-alias -Wl,-z,muldefs
-L/opt/SmartHeap_8.1/lib -lsmartheap

473.astar: Same as 471.omnetpp

483.xalancbmk: basepeak = yes

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/NEC-ic10-INT-ia32-intel64-linux-flags.html>

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

<http://www.spec.org/cpu2006/flags/NEC-ic10-INT-ia32-intel64-linux-flags.xml>



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

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