



SPEC® CINT2006 Result

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NEC Corporation

Express5800/120Li
(Intel Xeon processor 5130)

SPECint®_rate2006 = 50.0

SPECint_rate_base2006 = 46.1

CPU2006 license: 9006

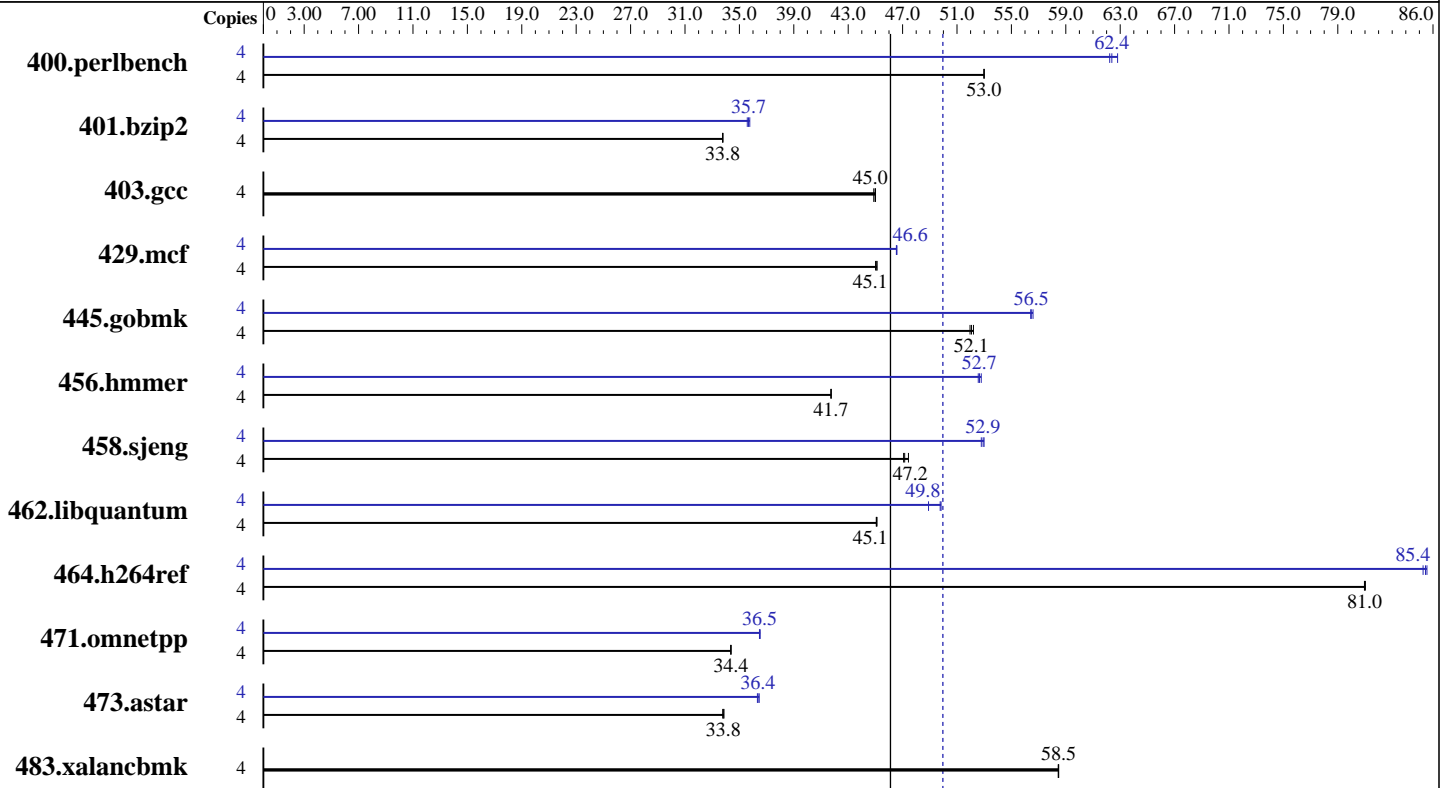
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Oct-2007

Hardware Availability: May-2007

Software Availability: Jun-2007



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Hardware

CPU Name: Intel Xeon 5130
 CPU Characteristics: 2.00 GHz, 4 MB L2, 1333 MHz bus
 CPU MHz: 2000
 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	<u>737</u>	<u>53.0</u>	738	53.0	737	53.0	4	628	62.2	<u>626</u>	<u>62.4</u>	622	62.8
401.bzip2	4	1142	33.8	<u>1143</u>	<u>33.8</u>	1143	33.8	4	<u>1082</u>	<u>35.7</u>	1079	35.8	1085	35.6
403.gcc	4	715	45.0	<u>716</u>	<u>45.0</u>	717	44.9	4	715	45.0	<u>716</u>	<u>45.0</u>	717	44.9
429.mcf	4	810	45.0	<u>809</u>	<u>45.1</u>	808	45.1	4	<u>784</u>	<u>46.6</u>	784	46.5	783	46.6
445.gobmk	4	808	52.0	<u>806</u>	<u>52.1</u>	804	52.2	4	741	56.6	<u>743</u>	<u>56.5</u>	744	56.4
456.hmmer	4	894	41.7	894	41.8	<u>894</u>	<u>41.7</u>	4	<u>709</u>	<u>52.7</u>	710	52.6	707	52.8
458.sjeng	4	1028	47.1	<u>1026</u>	<u>47.2</u>	1020	47.4	4	913	53.0	<u>915</u>	<u>52.9</u>	917	52.8
462.libquantum	4	1839	45.1	<u>1838</u>	<u>45.1</u>	1837	45.1	4	1663	49.8	<u>1665</u>	<u>49.8</u>	1695	48.9
464.h264ref	4	1093	81.0	1092	81.0	<u>1093</u>	<u>81.0</u>	4	<u>1036</u>	<u>85.4</u>	1038	85.3	1035	85.6
471.omnetpp	4	728	34.4	727	34.4	<u>727</u>	<u>34.4</u>	4	<u>685</u>	<u>36.5</u>	684	36.5	685	36.5
473.astar	4	<u>830</u>	<u>33.8</u>	829	33.9	831	33.8	4	<u>772</u>	<u>36.4</u>	770	36.5	773	36.3
483.xalancbmk	4	472	58.4	472	58.5	<u>472</u>	<u>58.5</u>	4	472	58.4	472	58.5	<u>472</u>	<u>58.5</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.hmmer, 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 other inquiries, please contact webmaster@spec.org.

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