



SPEC[®] CINT2006 Result

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NEC Corporation

SPECint[®]_rate2006 = 24.0

Express5800/110Rh-1
(Intel Xeon processor 3040)

SPECint_rate_base2006 = 22.0

CPU2006 license: 9006

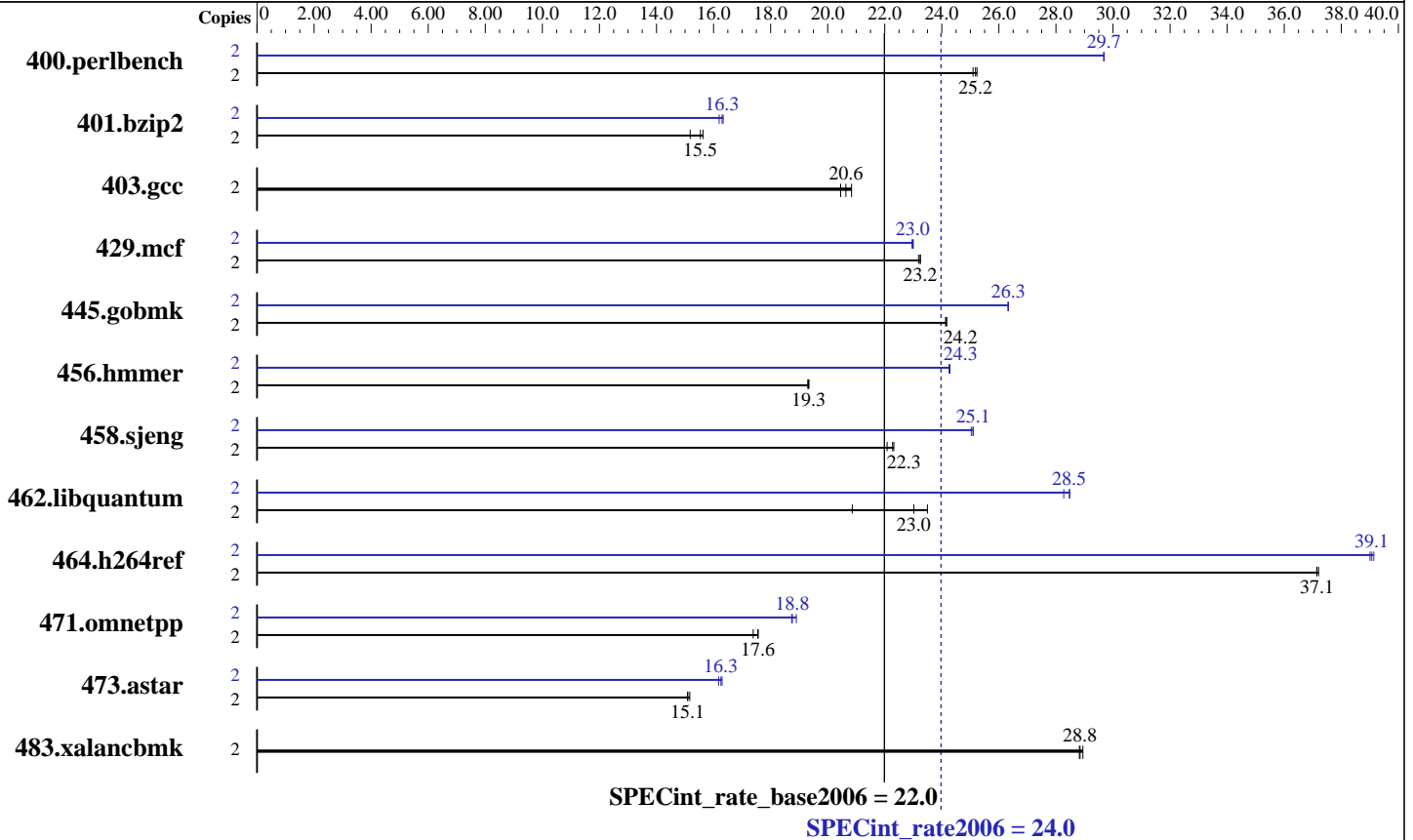
Test date: Nov-2007

Test sponsor: NEC Corporation

Hardware Availability: Nov-2006

Tested by: NEC Corporation

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon 3040
 CPU Characteristics: 1.86 GHz, 2 MB L2, 1066 MHz bus
 CPU MHz: 1866
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 2 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 4 GB (4x1 GB PC2-5300E, 2 rank, CL5-5-5, ECC)
 Disk Subsystem: 1x80 GB SATAII, 7200RPM
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64), Kernel 2.6.16.21-0.8-smp
 Compiler: Intel C++ Compiler for IA32/EM64T application, Version 10.0 - Build 20070426 Package ID: I_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	2	776	25.2	774	25.2	779	25.1	2	658	29.7	658	29.7	658	29.7
401.bzip2	2	1271	15.2	1242	15.5	1235	15.6	2	1192	16.2	1181	16.3	1184	16.3
403.gcc	2	787	20.5	773	20.8	780	20.6	2	787	20.5	773	20.8	780	20.6
429.mcf	2	787	23.2	785	23.2	785	23.2	2	794	23.0	793	23.0	795	23.0
445.gobmk	2	868	24.2	869	24.1	868	24.2	2	797	26.3	797	26.3	797	26.3
456.hmmmer	2	965	19.3	967	19.3	965	19.3	2	769	24.3	769	24.3	768	24.3
458.sjeng	2	1096	22.1	1086	22.3	1084	22.3	2	964	25.1	967	25.0	964	25.1
462.libquantum	2	1986	20.9	1764	23.5	1800	23.0	2	1466	28.3	1456	28.5	1455	28.5
464.h264ref	2	1190	37.2	1191	37.1	1192	37.1	2	1131	39.1	1135	39.0	1133	39.1
471.omnetpp	2	719	17.4	712	17.6	712	17.6	2	661	18.9	666	18.8	667	18.7
473.astar	2	926	15.2	930	15.1	930	15.1	2	861	16.3	868	16.2	864	16.3
483.xalanbmk	2	477	28.9	478	28.8	479	28.8	2	477	28.9	478	28.8	479	28.8

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
483.xalanbmk: -DSPEC_CPU_LINUX



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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

Peak Optimization Flags

C benchmarks:

Continued on next page



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Peak Optimization Flags (Continued)

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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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 13:51:07 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 11 December 2007.