



SPEC® CINT2006 Result

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NEC Corporation

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

SPECint®2006 = 14.1

SPECint_base2006 = 12.9

CPU2006 license: 9006

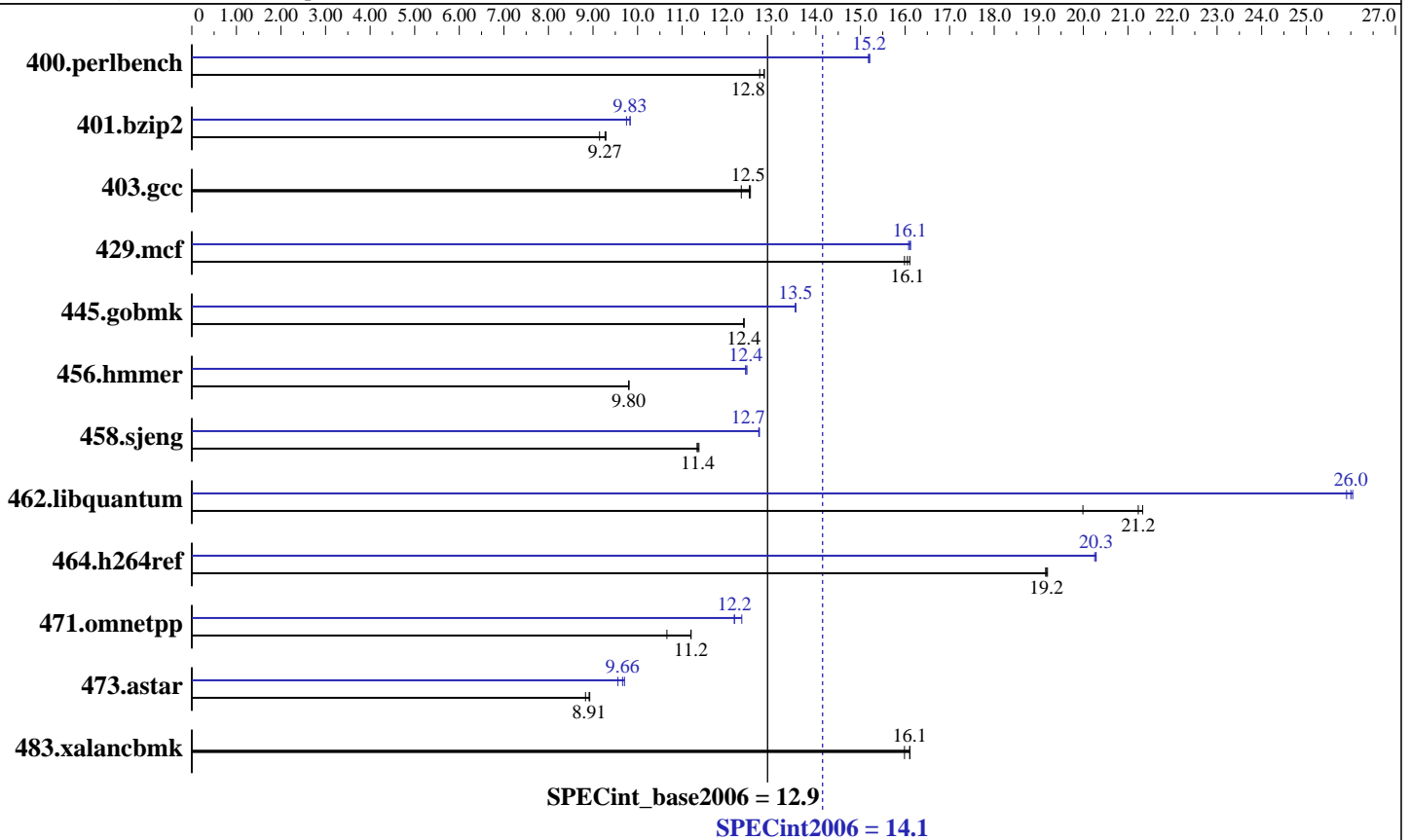
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Nov-2007

Hardware Availability: Nov-2006

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: 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	761	12.8	<u>761</u>	<u>12.8</u>	767	12.7	644	15.2	<u>643</u>	<u>15.2</u>	642	15.2
401.bzip2	1055	9.15	1039	9.29	<u>1041</u>	<u>9.27</u>	981	9.83	990	9.75	<u>982</u>	<u>9.83</u>
403.gcc	653	12.3	642	12.5	<u>644</u>	<u>12.5</u>	653	12.3	642	12.5	<u>644</u>	<u>12.5</u>
429.mcf	570	16.0	566	16.1	<u>568</u>	<u>16.1</u>	<u>566</u>	<u>16.1</u>	566	16.1	567	16.1
445.gobmk	847	12.4	847	12.4	<u>847</u>	<u>12.4</u>	775	13.5	774	13.5	<u>774</u>	<u>13.5</u>
456.hmmer	<u>952</u>	<u>9.80</u>	951	9.81	952	9.80	751	12.4	749	12.5	<u>751</u>	<u>12.4</u>
458.sjeng	<u>1066</u>	<u>11.4</u>	1068	11.3	1064	11.4	950	12.7	<u>951</u>	<u>12.7</u>	951	12.7
462.libquantum	1037	20.0	971	21.3	<u>976</u>	<u>21.2</u>	796	26.0	800	25.9	<u>797</u>	<u>26.0</u>
464.h264ref	1155	19.2	<u>1154</u>	<u>19.2</u>	1153	19.2	1093	20.3	1091	20.3	<u>1091</u>	<u>20.3</u>
471.omnetpp	586	10.7	<u>558</u>	<u>11.2</u>	558	11.2	507	12.3	<u>513</u>	<u>12.2</u>	513	12.2
473.astar	795	8.83	786	8.93	<u>788</u>	<u>8.91</u>	<u>726</u>	<u>9.66</u>	723	9.71	734	9.56
483.xalancbmk	432	16.0	<u>428</u>	<u>16.1</u>	428	16.1	432	16.0	<u>428</u>	<u>16.1</u>	428	16.1

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

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
483.xalancbmk: -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 -lsmarheap

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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