



SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/110Rh-1
(Intel Xeon processor 3060)

SPECint®2006 = 18.2

SPECint_base2006 = 16.7

CPU2006 license: 9006

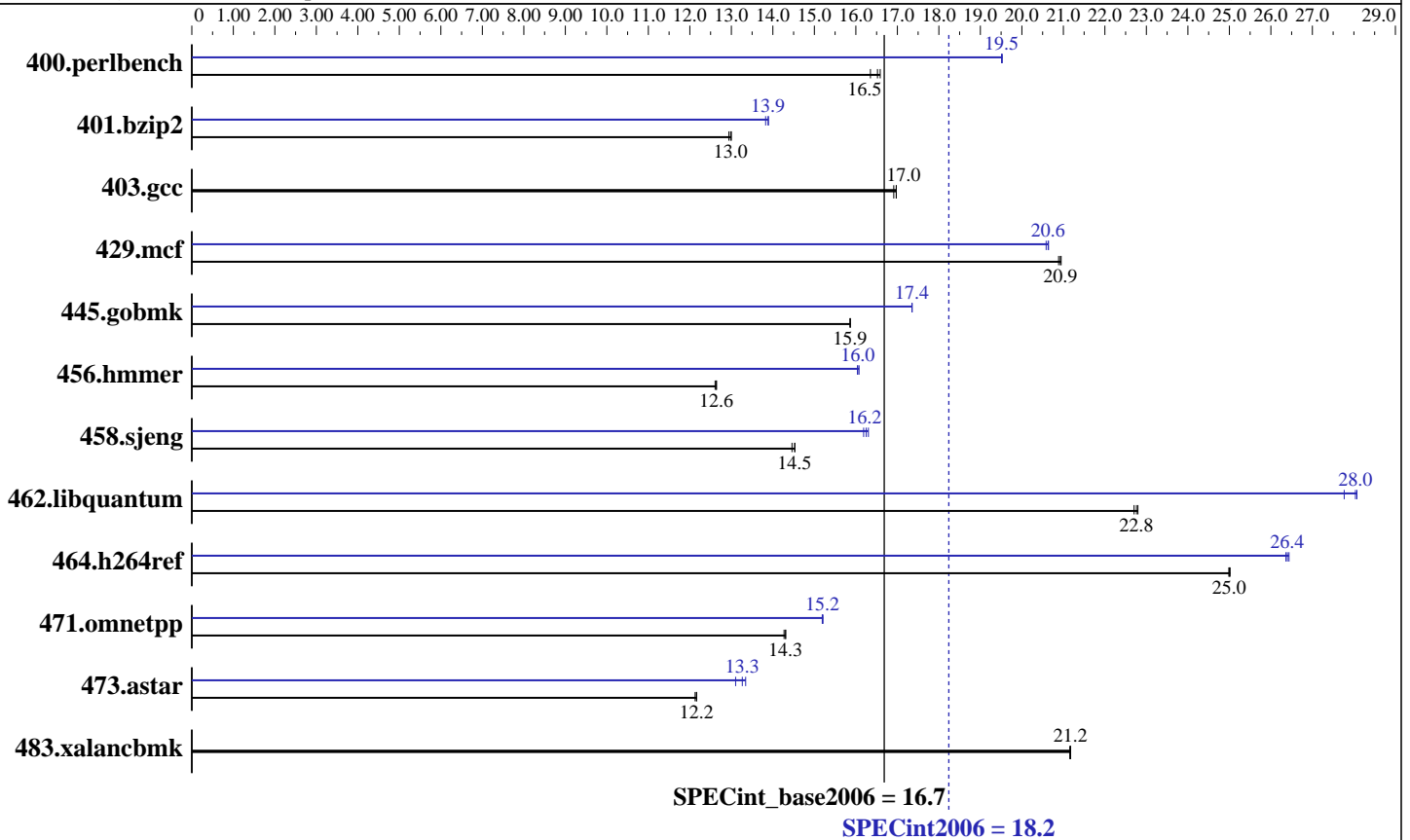
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Nov-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon 3060
 CPU Characteristics: 2.40 GHz, 4 MB L2, 1066 MHz bus
 CPU MHz: 2400
 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: 4 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 Linux32 and Linux64 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	589	16.6	<u>591</u>	<u>16.5</u>	598	16.4	501	19.5	<u>501</u>	<u>19.5</u>	500	19.5
401.bzip2	<u>743</u>	<u>13.0</u>	742	13.0	746	12.9	698	13.8	695	13.9	<u>695</u>	<u>13.9</u>
403.gcc	476	16.9	<u>474</u>	<u>17.0</u>	474	17.0	476	16.9	<u>474</u>	<u>17.0</u>	474	17.0
429.mcf	<u>436</u>	<u>20.9</u>	437	20.9	435	20.9	443	20.6	<u>442</u>	<u>20.6</u>	442	20.6
445.gobmk	661	15.9	<u>661</u>	<u>15.9</u>	661	15.9	605	17.4	<u>605</u>	<u>17.4</u>	604	17.4
456.hmmer	740	12.6	738	12.6	<u>738</u>	<u>12.6</u>	580	16.1	582	16.0	<u>581</u>	<u>16.0</u>
458.sjeng	833	14.5	<u>833</u>	<u>14.5</u>	837	14.5	742	16.3	<u>745</u>	<u>16.2</u>	747	16.2
462.libquantum	909	22.8	<u>910</u>	<u>22.8</u>	913	22.7	<u>739</u>	<u>28.0</u>	738	28.1	746	27.8
464.h264ref	<u>885</u>	<u>25.0</u>	885	25.0	886	25.0	<u>838</u>	<u>26.4</u>	839	26.4	837	26.4
471.omnetpp	<u>437</u>	<u>14.3</u>	437	14.3	438	14.3	411	15.2	411	15.2	<u>411</u>	<u>15.2</u>
473.astar	579	12.1	<u>577</u>	<u>12.2</u>	577	12.2	526	13.3	<u>529</u>	<u>13.3</u>	536	13.1
483.xalancbmk	<u>326</u>	<u>21.2</u>	326	21.2	326	21.2	<u>326</u>	<u>21.2</u>	326	21.2	326	21.2

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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