



SPEC® CINT2006 Result

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NEC Corporation

Express5800/120Bb-m6
(Intel Xeon processor E5345)

SPECint®2006 = 16.9

SPECint_base2006 = 15.4

CPU2006 license: 9006

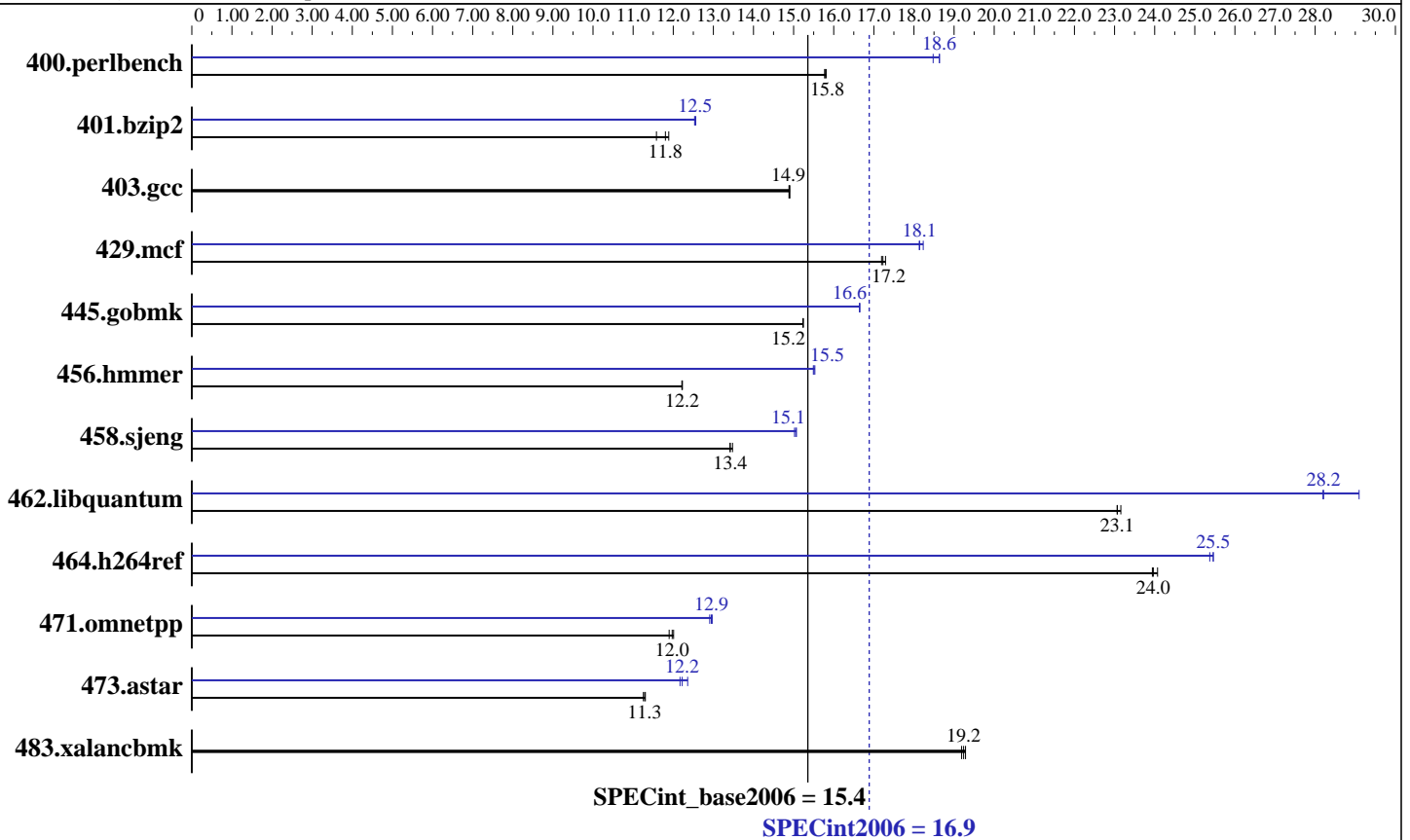
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Nov-2007

Hardware Availability: Jan-2007

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon E5345
 CPU Characteristics: 2.33 GHz, 2x4 MB L2 shared, 1333 MHz bus
 CPU MHz: 2333
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
 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, 10000RPM
 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	<u>619</u>	<u>15.8</u>	619	15.8	618	15.8	524	18.6	529	18.5	<u>524</u>	<u>18.6</u>
401.bzip2	812	11.9	833	11.6	<u>817</u>	<u>11.8</u>	770	12.5	<u>769</u>	<u>12.5</u>	768	12.6
403.gcc	541	14.9	<u>541</u>	<u>14.9</u>	540	14.9	541	14.9	<u>541</u>	<u>14.9</u>	540	14.9
429.mcf	527	17.3	530	17.2	<u>529</u>	<u>17.2</u>	<u>503</u>	<u>18.1</u>	500	18.2	503	18.1
445.gobmk	<u>688</u>	<u>15.2</u>	689	15.2	688	15.2	630	16.7	<u>630</u>	<u>16.6</u>	630	16.6
456.hmmer	764	12.2	763	12.2	<u>763</u>	<u>12.2</u>	<u>602</u>	<u>15.5</u>	601	15.5	602	15.5
458.sjeng	898	13.5	902	13.4	<u>902</u>	<u>13.4</u>	805	15.0	803	15.1	<u>804</u>	<u>15.1</u>
462.libquantum	898	23.1	895	23.2	<u>898</u>	<u>23.1</u>	<u>734</u>	<u>28.2</u>	735	28.2	712	29.1
464.h264ref	924	23.9	<u>923</u>	<u>24.0</u>	919	24.1	<u>869</u>	<u>25.5</u>	869	25.5	872	25.4
471.omnetpp	525	11.9	<u>522</u>	<u>12.0</u>	520	12.0	482	13.0	<u>483</u>	<u>12.9</u>	484	12.9
473.astar	624	11.3	<u>622</u>	<u>11.3</u>	621	11.3	577	12.2	<u>574</u>	<u>12.2</u>	568	12.4
483.xalanbmk	358	19.3	<u>359</u>	<u>19.2</u>	360	19.2	358	19.3	<u>359</u>	<u>19.2</u>	360	19.2

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.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 -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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