



SPEC® CINT2006 Result

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NEC Corporation

Express5800/120Ri-2
(Intel Xeon processor 5140)

SPECint®2006 = 17.3

SPECint_base2006 = 15.8

CPU2006 license: 9006

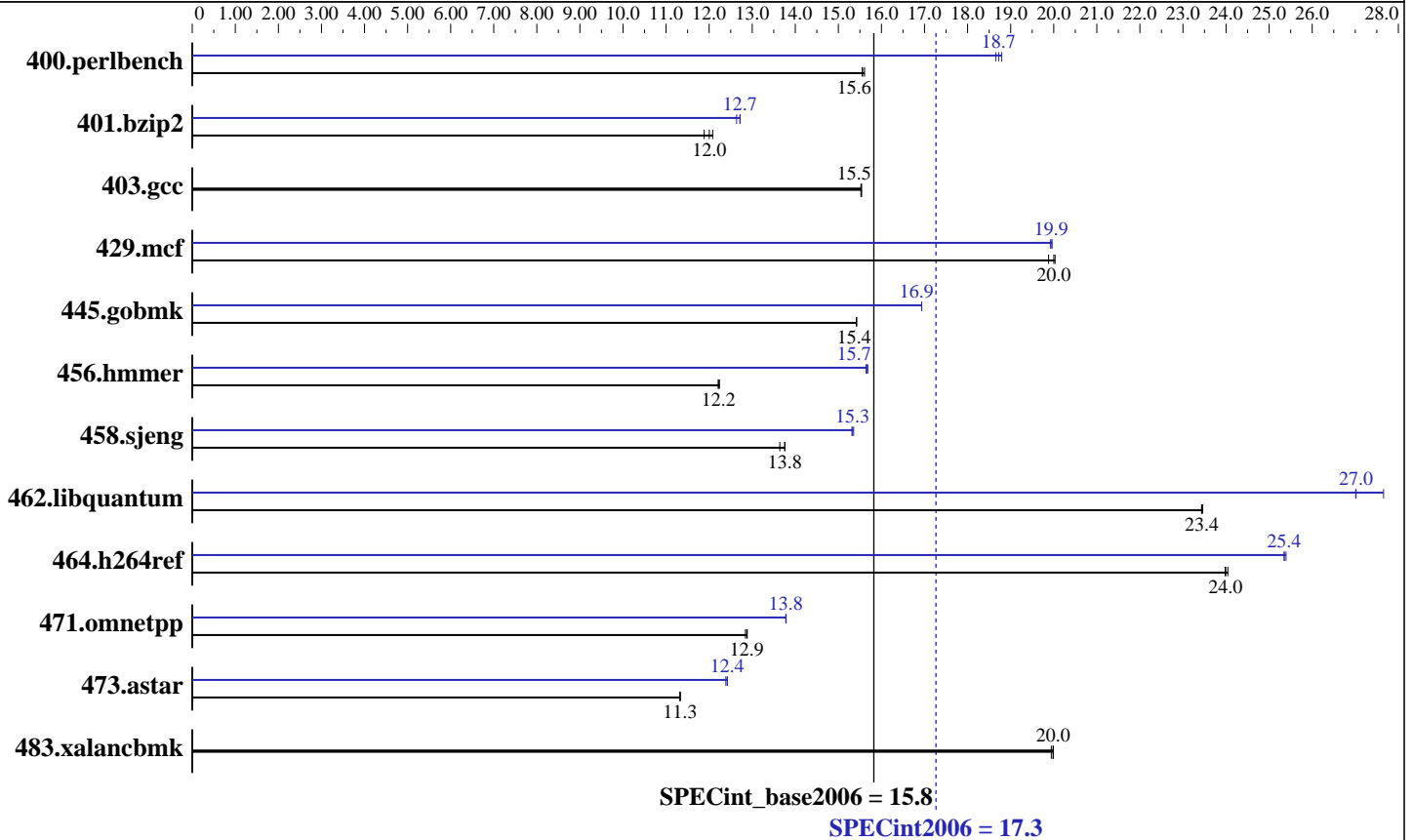
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Jun-2007

Hardware Availability: May-2007

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon 5140
 CPU Characteristics: 2.33 GHz, 4MB L2, 1333MHz bus
 CPU MHz: 2333
 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 (4x2 GB DDR2 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	626	15.6	<u>628</u>	<u>15.6</u>	628	15.6	524	18.7	520	18.8	<u>522</u>	<u>18.7</u>
401.bzip2	812	11.9	<u>804</u>	<u>12.0</u>	799	12.1	<u>759</u>	<u>12.7</u>	764	12.6	759	12.7
403.gcc	<u>518</u>	<u>15.5</u>	519	15.5	518	15.5	<u>518</u>	<u>15.5</u>	519	15.5	518	15.5
429.mcf	<u>456</u>	<u>20.0</u>	459	19.9	455	20.0	457	20.0	458	19.9	<u>457</u>	<u>19.9</u>
445.gobmk	680	15.4	<u>680</u>	<u>15.4</u>	680	15.4	<u>619</u>	<u>16.9</u>	620	16.9	619	16.9
456.hmmmer	764	12.2	<u>764</u>	<u>12.2</u>	762	12.2	<u>596</u>	<u>15.7</u>	596	15.6	595	15.7
458.sjeng	<u>880</u>	<u>13.8</u>	887	13.6	880	13.8	788	15.4	790	15.3	<u>789</u>	<u>15.3</u>
462.libquantum	<u>884</u>	<u>23.4</u>	884	23.4	883	23.5	749	27.7	767	27.0	<u>767</u>	<u>27.0</u>
464.h264ref	923	24.0	<u>922</u>	<u>24.0</u>	920	24.0	<u>873</u>	<u>25.4</u>	873	25.3	872	25.4
471.omnetpp	<u>485</u>	<u>12.9</u>	485	12.9	487	12.8	454	13.8	453	13.8	<u>453</u>	<u>13.8</u>
473.astar	620	11.3	<u>620</u>	<u>11.3</u>	620	11.3	567	12.4	565	12.4	<u>565</u>	<u>12.4</u>
483.xalancbmk	345	20.0	346	19.9	<u>345</u>	<u>20.0</u>	345	20.0	346	19.9	<u>345</u>	<u>20.0</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

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.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
456.hmmer: /opt/intel/cce/10.0.023/bin/icc

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:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias
-prefetch

401.bzip2: -L/opt/intel/cce/10.0.023/lib -I/opt/intel/cce/10.0.023/include
-prof-gen(pass 1) -prof-use(pass 2) -fast

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Peak Optimization Flags (Continued)

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.hmmr: -L/opt/intel/cce/10.0.023/lib -I/opt/intel/cce/10.0.023/include
-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: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

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-linux-flags.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/NEC-ic10-linux-flags.xml>



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