



SPEC® CINT2006 Result

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NEC Corporation

Express5800/120Ri-2
(Intel Xeon processor 5160)

SPECint®2006 = 17.9

SPECint_base2006 = 17.2

CPU2006 license: 9006

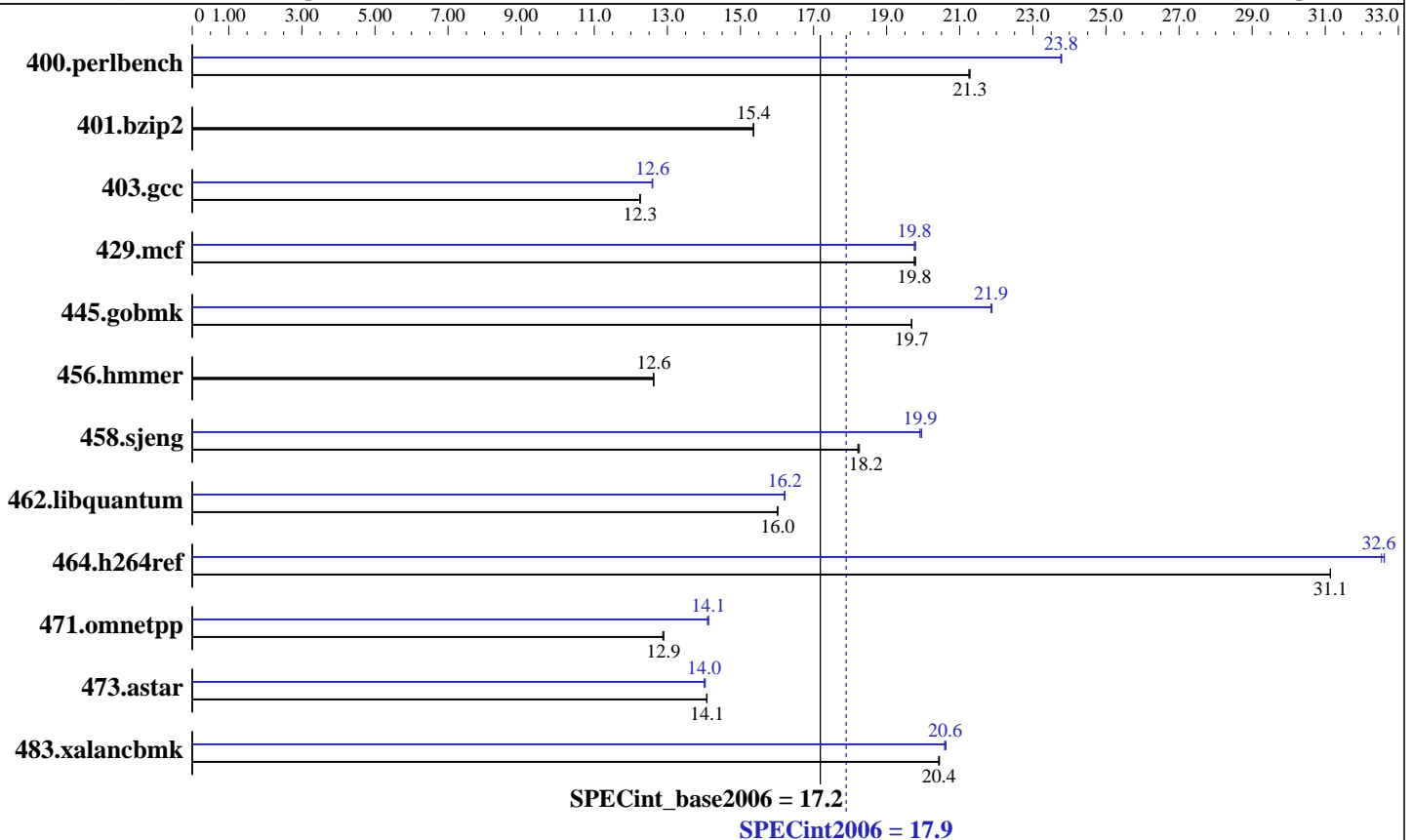
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: May-2007

Hardware Availability: May-2007

Software Availability: Apr-2007



Hardware

CPU Name: Intel Xeon 5160
 CPU Characteristics: 3.00 GHz, 4MB L2, 1333MHz bus
 CPU MHz: 3000
 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 (8x1 GB DDR2 5300F, 2 rank, CL5-5-5, ECC)
 Disk Subsystem: 1x73.2 GB SAS, 15000RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003, Standard x64 Edition
 Compiler: Intel C++ Compiler for 32bit version 9.1
 Build 20070109, Package-ID W_CC_C_9.1.034
 Microsoft Visual Studio 2005 (libr. & linker)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: MicroQuill SmartHeap Library 8.1



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	459	21.3	460	21.2	<u>459</u>	<u>21.3</u>	411	23.8	411	23.8	<u>411</u>	<u>23.8</u>
401.bzip2	628	15.4	<u>628</u>	<u>15.4</u>	629	15.4	628	15.4	<u>628</u>	<u>15.4</u>	629	15.4
403.gcc	657	12.2	657	12.3	<u>657</u>	<u>12.3</u>	640	12.6	639	12.6	<u>639</u>	<u>12.6</u>
429.mcf	462	19.8	<u>462</u>	<u>19.8</u>	461	19.8	<u>462</u>	<u>19.8</u>	461	19.8	462	19.8
445.gobmk	533	19.7	<u>533</u>	<u>19.7</u>	533	19.7	<u>480</u>	<u>21.9</u>	479	21.9	480	21.9
456.hammer	739	12.6	739	12.6	<u>739</u>	<u>12.6</u>	739	12.6	739	12.6	<u>739</u>	<u>12.6</u>
458.sjeng	663	18.3	664	18.2	<u>664</u>	<u>18.2</u>	<u>608</u>	<u>19.9</u>	608	19.9	606	20.0
462.libquantum	1293	16.0	<u>1293</u>	<u>16.0</u>	1294	16.0	1279	16.2	<u>1278</u>	<u>16.2</u>	1278	16.2
464.h264ref	711	31.1	<u>711</u>	<u>31.1</u>	711	31.1	<u>679</u>	<u>32.6</u>	680	32.5	679	32.6
471.omnetpp	485	12.9	<u>485</u>	<u>12.9</u>	485	12.9	<u>442</u>	<u>14.1</u>	442	14.1	443	14.1
473.astar	498	14.1	<u>498</u>	<u>14.1</u>	499	14.1	<u>501</u>	<u>14.0</u>	500	14.0	501	14.0
483.xalancbmk	337	20.4	<u>338</u>	<u>20.4</u>	338	20.4	<u>335</u>	<u>20.6</u>	<u>335</u>	<u>20.6</u>	335	20.6

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

The Express5800/120Rg-1 and the Express5800/120Ri-2 models are electronically equivalent.
The results have been measured on a Express5800/120Ri-2 model.

Base Compiler Invocation

C benchmarks:
icl -Qc99

C++ benchmarks:
icl

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalancbmk: -Qoption, cpp, --no_wchar_t_keyword

Base Optimization Flags

C benchmarks:
-fast -F512000000 shlw32M.lib -link -FORCE:MULTIPLE

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Base Optimization Flags (Continued)

C++ benchmarks:
-fast -Qcxx-features -F512000000 shlW32M.lib
-link -FORCE:MULTIPLE

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:
icl -Qc99

C++ benchmarks:
icl

Peak Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

Peak Optimization Flags

C benchmarks:
400.perlbench: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-F512000000 shlW32M.lib -link -FORCE:MULTIPLE
401.bzip2: basepeak = yes
403.gcc: Same as 400.perlbench
429.mcf: ONESTEP -fast -F512000000 shlW32M.lib
-link -FORCE:MULTIPLE
445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F512000000
shlW32M.lib -link -FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

456.hmmr: basepeak = yes

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

471.omnetpp: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qcxx-features -F512000000 shlW32M.lib
-link -FORCE:MULTIPLE

473.astar: Same as 471.omnetpp

483.xalancbmk: ONESTEP -fast -Qcxx-features -F512000000 shlW32M.lib
-link -FORCE:MULTIPLE

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-cpu2006-ic91-flags.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/NEC-cpu2006-ic91-flags.xml>

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For other inquiries, please contact webmaster@spec.org.

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