



SPEC® CINT2006 Result

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NEC Corporation

Express5800/140Rf-4
(Intel Xeon processor E7210)

SPECint®2006 = 20.9

SPECint_base2006 = 18.1

CPU2006 license: 9006

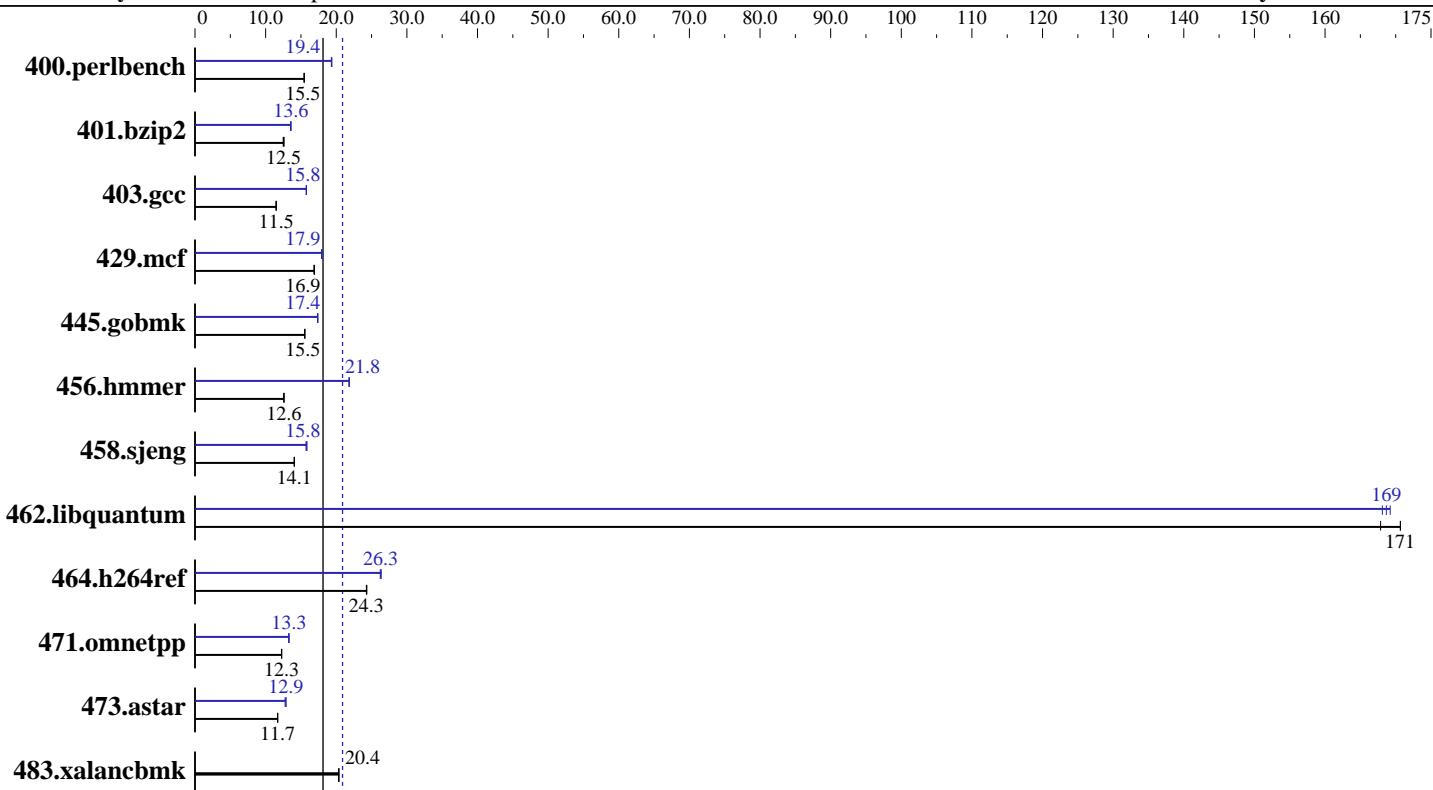
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Jan-2008

Hardware Availability: Dec-2007

Software Availability: Nov-2007



Hardware		Software	
CPU Name:	Intel Xeon E7210	Operating System:	SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
CPU Characteristics:	2.40 GHz, 2x4 MB L2 shared, 1066 MHz bus	Compiler:	Intel C++ Compiler for Linux32 and Linux64 version 10.1 Build 20070913 Package ID: l_cc_p_10.1.008
CPU MHz:	2400	Auto Parallel:	Yes
FPU:	Integrated	File System:	ext2
CPU(s) enabled:	8 cores, 4 chips, 2 cores/chip	System State:	Multiuser, Runlevel 3
CPU(s) orderable:	1,2,4 chips	Base Pointers:	32-bit
Primary Cache:	32 KB I + 32 KB D on chip per core	Peak Pointers:	32/64-bit
Secondary Cache:	4 MB I+D on chip per core	Other Software:	MicroQuill SmartHeap library 8.1 binutils-2.17.tar.gz, Version 2.17
L3 Cache:	None		
Other Cache:	None		
Memory:	12 GB (12x1 GB PC2-5300F, 2 rank, CL5-5-5, ECC)		
Disk Subsystem:	1x73.2 GB SAS, 15000RPM		
Other Hardware:	None		



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio										
400.perlbench	633	15.4	631	15.5	<u>631</u>	<u>15.5</u>	505	19.4	<u>505</u>	<u>19.4</u>	506	19.3
401.bzip2	<u>769</u>	<u>12.5</u>	765	12.6	773	12.5	713	13.5	<u>710</u>	<u>13.6</u>	710	13.6
403.gcc	701	11.5	700	11.5	<u>700</u>	<u>11.5</u>	510	15.8	<u>511</u>	<u>15.8</u>	511	15.7
429.mcf	541	16.8	539	16.9	<u>540</u>	<u>16.9</u>	<u>508</u>	<u>17.9</u>	508	17.9	507	18.0
445.gobmk	675	15.5	675	15.5	<u>675</u>	<u>15.5</u>	<u>604</u>	<u>17.4</u>	604	17.4	604	17.4
456.hmmer	741	12.6	<u>741</u>	<u>12.6</u>	742	12.6	427	21.8	428	21.8	<u>427</u>	<u>21.8</u>
458.sjeng	860	14.1	861	14.0	<u>861</u>	<u>14.1</u>	764	15.8	<u>765</u>	<u>15.8</u>	770	15.7
462.libquantum	123	168	121	171	<u>121</u>	<u>171</u>	123	168	122	169	<u>123</u>	<u>169</u>
464.h264ref	909	24.3	<u>911</u>	<u>24.3</u>	912	24.3	<u>841</u>	<u>26.3</u>	840	26.4	844	26.2
471.omnetpp	<u>510</u>	<u>12.3</u>	509	12.3	510	12.3	471	13.3	470	13.3	<u>470</u>	<u>13.3</u>
473.astar	601	11.7	<u>599</u>	<u>11.7</u>	599	11.7	550	12.8	<u>545</u>	<u>12.9</u>	545	12.9
483.xalancbmk	339	20.4	<u>339</u>	<u>20.4</u>	339	20.4	<u>339</u>	<u>20.4</u>	<u>339</u>	<u>20.4</u>	339	20.4

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 OMP_NUM_THREADS set to number of cores (default).

Platform Notes

Bios settings:

Adjacent Sector Prefetch: Enabled
Intel SpeedStep Technology: Disabled

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



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Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

-fast -vec-guard-write -parallel -par-runtime-control

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/10.1.008/bin/icc
-L/opt/intel/cce/10.1.008/lib
-I/opt/intel/cce/10.1.008/include

456.hmmr: /opt/intel/cce/10.1.008/bin/icc
-L/opt/intel/cce/10.1.008/lib
-I/opt/intel/cce/10.1.008/include

C++ benchmarks:

icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmr: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX

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Peak Portability Flags (Continued)

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: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-auto-ilp32

403.gcc: -fast -inline-calloc -opt-malloc-options=3

429.mcf: -fast -prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo
-no-prec-div -ansi-alias

456.hmmr: -fast -unroll12 -ansi-alias -opt-multi-version-aggressive
-auto-ilp32

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -fast -unroll14 -O0 -prefetch
-opt-streaming-stores always -vec-guard-write
-opt-malloc-options=3 -parallel -par-runtime-control

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12
-ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=block
-Wl,-z,muldefs -L/opt/SmartHeap_8.1/lib -lsmartheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine
-Wl,-z,muldefs -L/opt/SmartHeap_8.1/lib -lsmartheap

483.xalancbmk: basepeak = yes



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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-Intel-ic10.1-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-Intel-ic10.1-ia32-intel64-linux-flags.xml>

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

Tested with SPEC CPU2006 v1.0.

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