



SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/140Re-4
(Intel Xeon processor 7110M)

SPECint®2006 = **9.10**

SPECint_base2006 = **8.49**

CPU2006 license: 9006

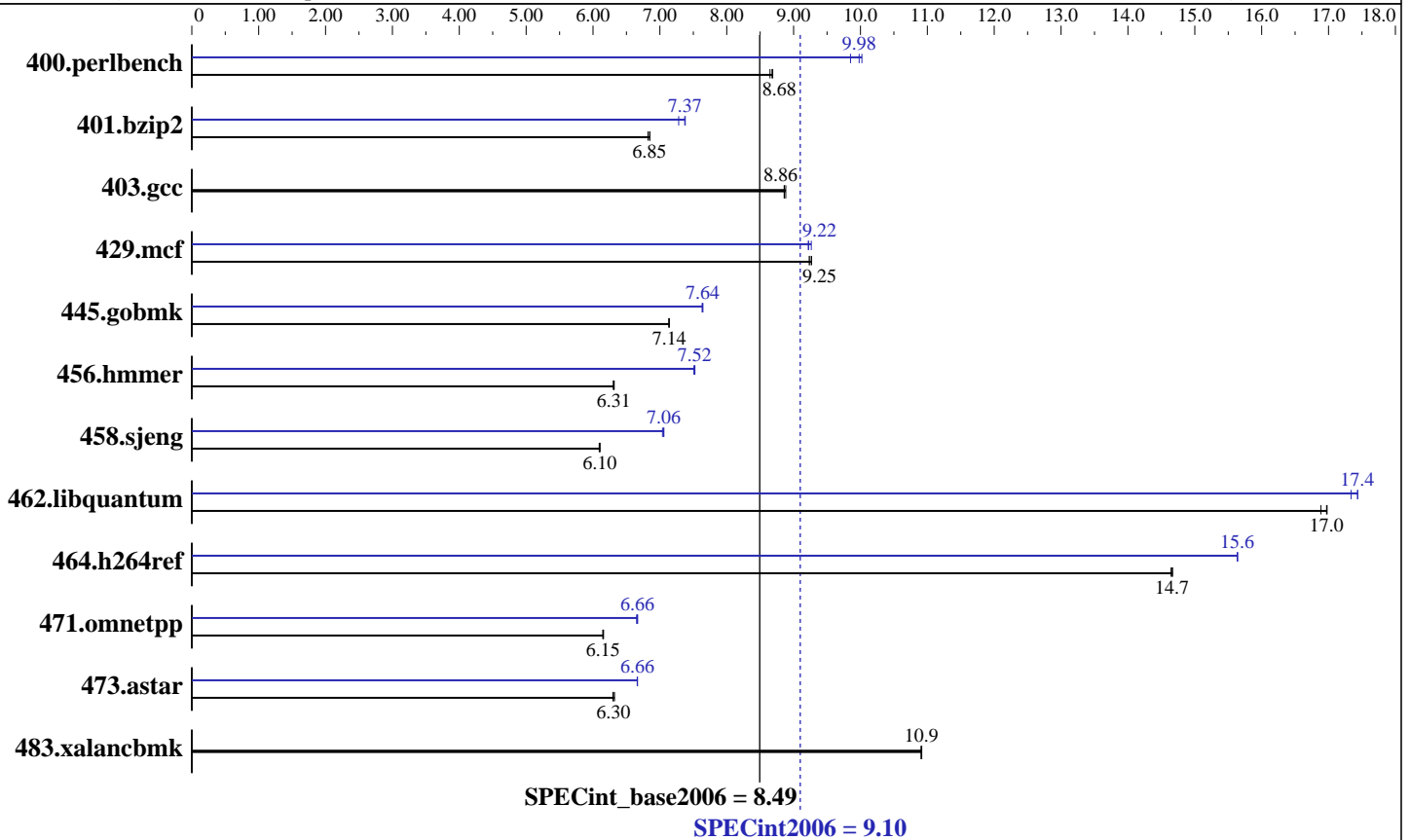
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Nov-2007

Hardware Availability: Oct-2006

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon 7110M
 CPU Characteristics: 2.60 GHz, 800 MHz bus
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip, 2 threads/core
 CPU(s) orderable: 1,2,4 chips
 Primary Cache: 12 K micro-ops I + 16 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core
 L3 Cache: 4 MB I+D on chip per chip
 Other Cache: None
 Memory: 32 GB (16x2 GB PC2-3200R, 2 rank, CL3-3-3, ECC)
 Disk Subsystem: 1x146.5 GB SAS, 15000RPM
 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: 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



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/140Re-4
(Intel Xeon processor 7110M)

SPECint2006 = **9.10**

SPECint_base2006 = **8.49**

CPU2006 license: 9006
Test sponsor: NEC Corporation
Tested by: NEC Corporation

Test date: Nov-2007
Hardware Availability: Oct-2006
Software Availability: Jun-2007

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	<u>1126</u>	<u>8.68</u>	1130	8.65	1125	8.69	<u>979</u>	<u>9.98</u>	975	10.0	992	9.85
401.bzip2	<u>1409</u>	<u>6.85</u>	1409	6.85	1415	6.82	1325	7.28	1308	7.38	<u>1309</u>	<u>7.37</u>
403.gcc	906	8.88	909	8.86	<u>908</u>	<u>8.86</u>	906	8.88	909	8.86	<u>908</u>	<u>8.86</u>
429.mcf	984	9.27	<u>986</u>	<u>9.25</u>	988	9.23	989	9.22	<u>989</u>	<u>9.22</u>	984	9.26
445.gobmk	1470	7.13	<u>1469</u>	<u>7.14</u>	1469	7.14	1375	7.63	<u>1373</u>	<u>7.64</u>	1373	7.64
456.hmmmer	1477	6.32	1480	6.30	<u>1478</u>	<u>6.31</u>	<u>1240</u>	<u>7.52</u>	1243	7.51	1240	7.52
458.sjeng	1982	6.10	<u>1983</u>	<u>6.10</u>	1986	6.09	1719	7.04	<u>1715</u>	<u>7.06</u>	1714	7.06
462.libquantum	1220	17.0	<u>1221</u>	<u>17.0</u>	1227	16.9	<u>1189</u>	<u>17.4</u>	1195	17.3	1188	17.4
464.h264ref	1509	14.7	<u>1509</u>	<u>14.7</u>	1511	14.6	1415	15.6	<u>1415</u>	<u>15.6</u>	1415	15.6
471.omnetpp	1015	6.16	<u>1016</u>	<u>6.15</u>	1017	6.15	<u>938</u>	<u>6.66</u>	940	6.65	937	6.67
473.astar	<u>1113</u>	<u>6.30</u>	1115	6.30	1110	6.32	1054	6.66	<u>1054</u>	<u>6.66</u>	1053	6.67
483.xalancbmk	632	10.9	633	10.9	<u>632</u>	<u>10.9</u>	632	10.9	633	10.9	<u>632</u>	<u>10.9</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

The Express5800/140Hf and the Express5800/140Re-4 models are electronically equivalent.

The results have been measured on a Express5800/140Re-4 model.

Base Compiler Invocation

C benchmarks:
icc -static(*)

C++ benchmarks:
icpc

(*) Indicates a compiler flag that was found in a non-compiler variable.



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/140Re-4
(Intel Xeon processor 7110M)

SPECint2006 = 9.10

SPECint_base2006 = 8.49

CPU2006 license: 9006

Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Nov-2007

Hardware Availability: Oct-2006

Software Availability: Jun-2007

Base Portability Flags

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

Base Optimization Flags

C benchmarks:

-xP -ipo -O3 -no-prec-div

C++ benchmarks:

-xP -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 -static(*)

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

445.gobmk: icc

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 -static(*)

C++ benchmarks:

icpc

(*) Indicates a compiler flag that was found in a non-compiler variable.



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

SPECint2006 = 9.10

Express5800/140Re-4
(Intel Xeon processor 7110M)

SPECint_base2006 = 8.49

CPU2006 license: 9006

Test date: Nov-2007

Test sponsor: NEC Corporation

Hardware Availability: Oct-2006

Tested by: NEC Corporation

Software Availability: Jun-2007

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) -xP -ipo -O3
-no-prec-div -ansi-alias -prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -xP -ipo -O3
-no-prec-div

403.gcc: basepeak = yes

429.mcf: -xP -ipo -O3 -no-prec-div -prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xP -O2 -ipo
-no-prec_div -ansi-alias

456.hmmer: -prof-gen(pass 1) -prof-use(pass 2) -xP -ipo -O3
-no-prec-div -unroll2 -ansi-alias

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -xP -ipo -O3
-no-prec-div -unroll4

462.libquantum: Same as 458.sjeng

464.h264ref: Same as 456.hmmer

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xP -O3 -ipo
-no-prec_div -ansi-alias -Wl,-z,muldefs
-L/opt/SmartHeap_8.1/lib -lsmartheap

473.astar: Same as 471.omnetpp

483.xalancbmk: basepeak = yes



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/140Re-4
(Intel Xeon processor 7110M)

SPECint2006 = 9.10

SPECint_base2006 = 8.49

CPU2006 license: 9006

Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Nov-2007

Hardware Availability: Oct-2006

Software Availability: Jun-2007

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>

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 13:46:27 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 11 December 2007.