



SPEC® CINT2006 Result

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NEC Corporation

Express5800/120Bb-m6
(Intel Xeon processor X5355)

SPECint®_rate2006 = 91.9

SPECint_rate_base2006 = 86.5

CPU2006 license: 9006

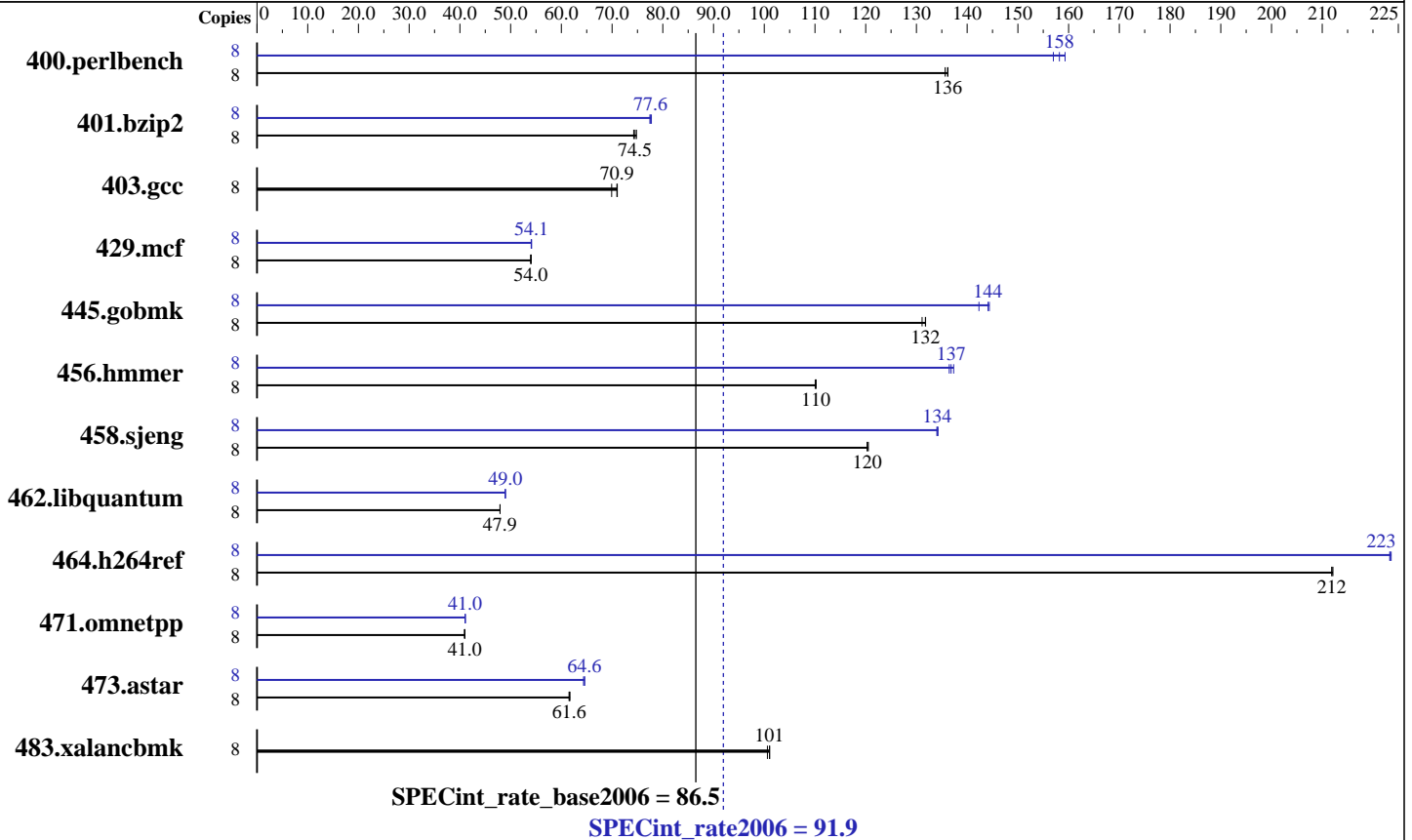
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Nov-2007

Hardware Availability: Jan-2007

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: 2.66 GHz, 2x4 MB L2 shared, 1333 MHz bus
 CPU MHz: 2666
 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: 16 GB (8x2 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 Linux32 and Linux64 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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	574	136	<u>574</u>	<u>136</u>	576	136	8	491	159	498	157	<u>494</u>	<u>158</u>
401.bzip2	8	<u>1036</u>	<u>74.5</u>	1032	74.8	1040	74.3	8	997	77.4	<u>995</u>	<u>77.6</u>	993	77.7
403.gcc	8	<u>908</u>	<u>70.9</u>	921	69.9	907	71.0	8	<u>908</u>	<u>70.9</u>	921	69.9	907	71.0
429.mcf	8	1350	54.1	1352	54.0	<u>1352</u>	<u>54.0</u>	8	<u>1348</u>	<u>54.1</u>	1348	54.1	1350	54.0
445.gobmk	8	637	132	640	131	<u>637</u>	<u>132</u>	8	<u>582</u>	<u>144</u>	581	144	590	142
456.hmmmer	8	678	110	<u>677</u>	<u>110</u>	677	110	8	543	137	<u>545</u>	<u>137</u>	547	136
458.sjeng	8	803	121	<u>804</u>	<u>120</u>	805	120	8	722	134	721	134	<u>722</u>	<u>134</u>
462.libquantum	8	<u>3460</u>	<u>47.9</u>	3460	47.9	3459	47.9	8	3388	48.9	<u>3386</u>	<u>49.0</u>	3385	49.0
464.h264ref	8	836	212	835	212	<u>835</u>	<u>212</u>	8	793	223	<u>792</u>	<u>223</u>	792	224
471.omnetpp	8	1220	41.0	<u>1221</u>	<u>41.0</u>	1223	40.9	8	<u>1219</u>	<u>41.0</u>	1219	41.0	1217	41.1
473.astar	8	910	61.7	<u>912</u>	<u>61.6</u>	913	61.5	8	872	64.4	<u>870</u>	<u>64.6</u>	870	64.6
483.xalanbmk	8	<u>546</u>	<u>101</u>	549	101	546	101	8	<u>546</u>	<u>101</u>	549	101	546	101

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
'/usr/bin/taskset' used to bind processes to CPUs

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.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.perlbenc: -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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