



SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R460 E1
(Intel Xeon E5205, 1.86 GHz)

SPECint_rate2006 = 27.7

SPECint_rate_base2006 = 23.5

CPU2006 license: 20

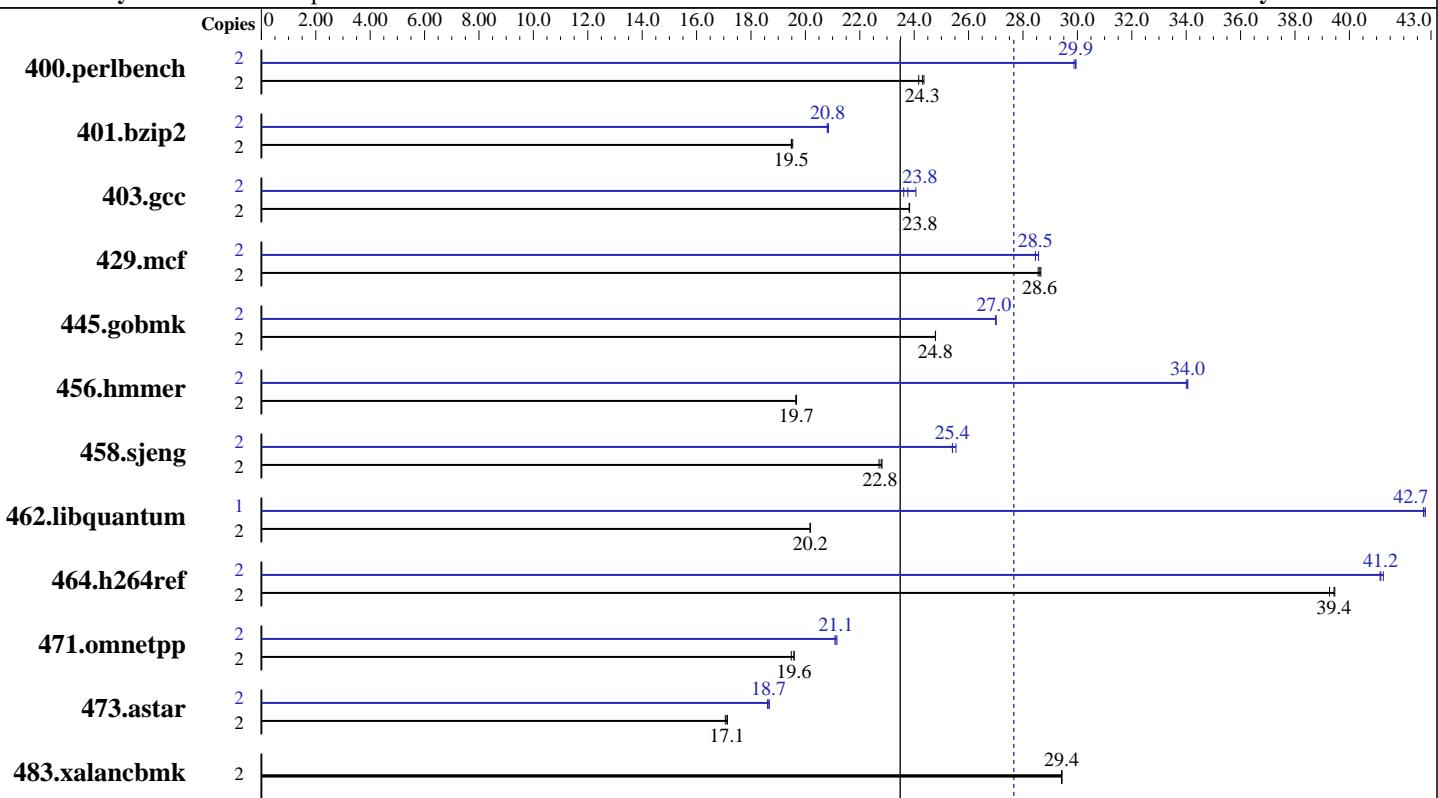
Test sponsor: Bull SAS

Tested by: NEC Corporation

Test date: Jun-2008

Hardware Availability: Apr-2008

Software Availability: Nov-2007



SPECint_rate_base2006 = 23.5

SPECint_rate2006 = 27.7

Hardware

CPU Name: Intel Xeon E5205
CPU Characteristics: 1.86 GHz, 6 MB L2, 1066 MHz bus
CPU MHz: 1867
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
CPU(s) orderable: 1,2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 6 MB I+D on chip per chip
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, 15000RPM
Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
Compiler: Intel C++ Compiler for Linux version 10.1 Build 20070913 Package ID: l_cc_p_10.1.008
Auto Parallel: Yes
File System: ReiserFS
System State: Run level 3 (multi-user)
Base Pointers: 32-bit
Peak Pointers: 32/64-bit
Other Software: MicroQuill SmartHeap library 8.1 binutils 2.17



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R460 E1
(Intel Xeon E5205, 1.86 GHz)

SPECint_rate2006 = 27.7

SPECint_rate_base2006 = 23.5

CPU2006 license: 20

Test date: Jun-2008

Test sponsor: Bull SAS

Hardware Availability: Apr-2008

Tested by: NEC Corporation

Software Availability: Nov-2007

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	802	24.4	804	24.3	809	24.2	2	653	29.9	652	30.0	654	29.9
401.bzip2	2	991	19.5	988	19.5	990	19.5	2	928	20.8	926	20.9	927	20.8
403.gcc	2	676	23.8	676	23.8	676	23.8	2	669	24.1	677	23.8	682	23.6
429.mcf	2	637	28.6	639	28.6	637	28.7	2	638	28.6	641	28.5	641	28.5
445.gobmk	2	847	24.8	846	24.8	847	24.8	2	777	27.0	777	27.0	777	27.0
456.hmmer	2	949	19.7	950	19.6	949	19.7	2	549	34.0	548	34.0	548	34.1
458.sjeng	2	1062	22.8	1061	22.8	1066	22.7	2	953	25.4	953	25.4	948	25.5
462.libquantum	2	2054	20.2	2053	20.2	2054	20.2	1	485	42.7	484	42.8	485	42.7
464.h264ref	2	1127	39.3	1122	39.5	1122	39.4	2	1075	41.2	1076	41.1	1073	41.2
471.omnetpp	2	638	19.6	638	19.6	642	19.5	2	593	21.1	592	21.1	591	21.2
473.astar	2	823	17.1	819	17.1	820	17.1	2	752	18.7	755	18.6	753	18.7
483.xalancbmk	2	469	29.4	469	29.4	469	29.4	2	469	29.4	469	29.4	469	29.4

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

Platform Notes

Bios settings:

Hardware Prefetcher: Enabled
Adjacent Cache Line Prefetch: Enabled
Intel SpeedStep Technology: Disabled

General Notes

All benchmarks compiled in 32-bit mode except 401.bzip2,
456.hmmer, for peak, are compiled in 64-bit mode

The NEC Express5800/120Rh-1(Intel Xeon E5205),
the NEC Express5800/120Rj-2(Intel Xeon E5205),
the Bull NovaScale R440 E1 (Intel Xeon E5205,1.86GHz) and
the Bull NovaScale R460 E1 (Intel Xeon E5205,1.86GHz) models are electronically equivalent.
The results have been measured on a NEC Express5800/120Rj-2(Intel Xeon E5205) model.

Base Compiler Invocation

C benchmarks:
icc

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R460 E1
(Intel Xeon E5205, 1.86 GHz)

SPECint_rate2006 = 27.7

SPECint_rate_base2006 = 23.5

CPU2006 license: 20

Test sponsor: Bull SAS

Tested by: NEC Corporation

Test date: Jun-2008

Hardware Availability: Apr-2008

Software Availability: Nov-2007

Base Compiler Invocation (Continued)

C++ benchmarks:

icpc

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 -inline-calloc -opt-malloc-options=3

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



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R460 E1
(Intel Xeon E5205, 1.86 GHz)

SPECint_rate2006 = 27.7

SPECint_rate_base2006 = 23.5

CPU2006 license: 20

Test sponsor: Bull SAS

Tested by: NEC Corporation

Test date: Jun-2008

Hardware Availability: Apr-2008

Software Availability: Nov-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) -fast -ansi-alias
-prefetch
401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
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.hmmer: -fast -unroll12 -ansi-alias -opt-multi-version-aggressive
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



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R460 E1
(Intel Xeon E5205, 1.86 GHz)

SPECint_rate2006 = 27.7

SPECint_rate_base2006 = 23.5

CPU2006 license: 20

Test sponsor: Bull SAS

Tested by: NEC Corporation

Test date: Jun-2008

Hardware Availability: Apr-2008

Software Availability: Nov-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-Intel-ic10.1-INT-ia32-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-INT-ia32-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 19:58:38 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 8 July 2008.