



SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R460
(Intel Xeon processor E5335,2.00GHz)

SPECint®_rate2006 = 79.1

SPECint_rate_base2006 = 74.5

CPU2006 license: 20

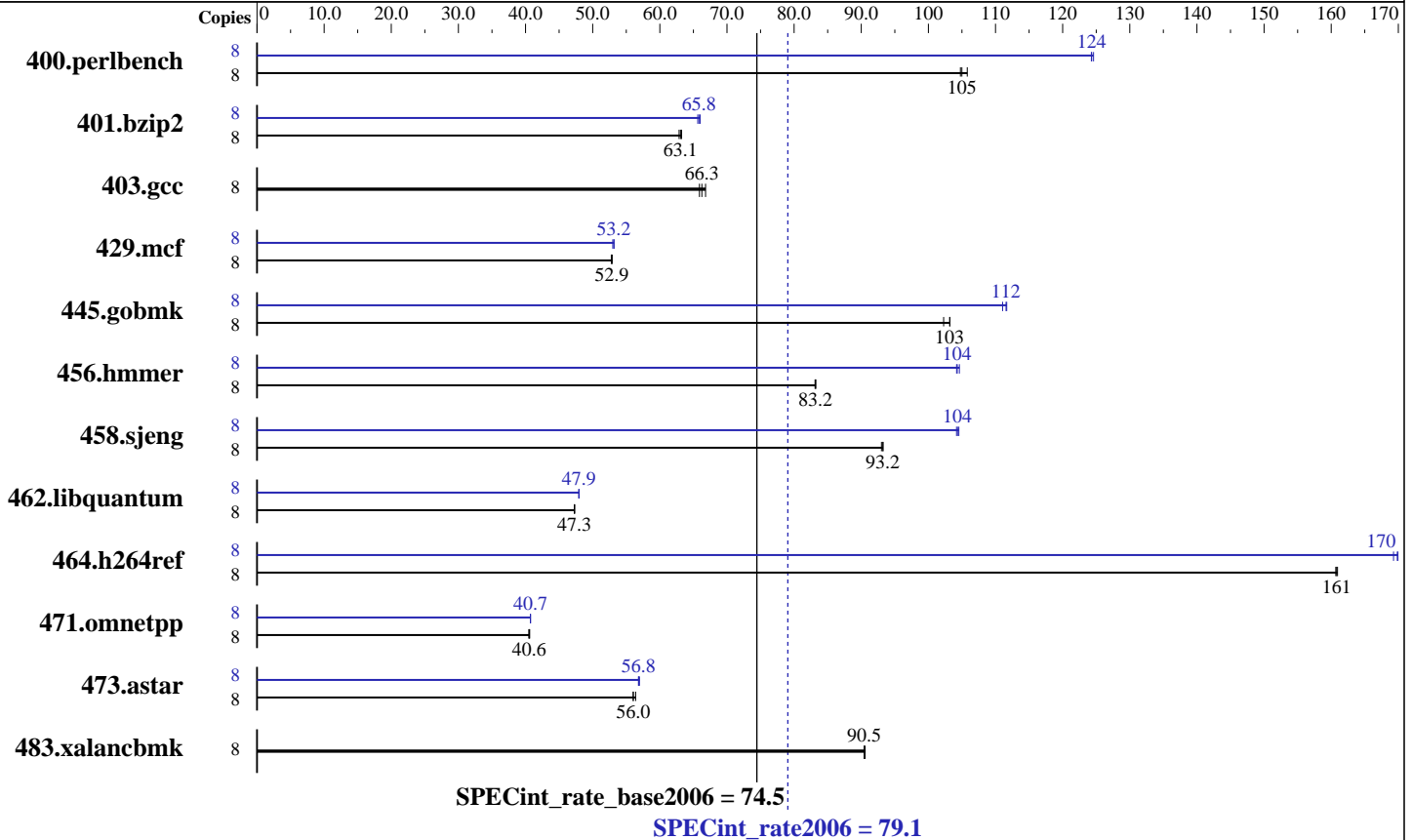
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Jul-2007

Hardware Availability: May-2007

Software Availability: May-2007



Hardware

CPU Name: Intel Xeon E5335
 CPU Characteristics: 2.00 GHz, 8 MB L2, 1333 MHz system bus
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1 to 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) FB-DIMM PC2-5300F ECC CL5
 Disk Subsystem: 1x73 GB SAS, 15000 RPM
 Other Hardware: None

Software

Operating System: SUSE LINUX Enterprise Server 10
 Kernel 2.6.16.21-0.8-smp for x86_64
 Compiler: Intel C++ Compiler for Linux32 version 10.0
 Build 20070426 Package ID: l_cc_p_10.0.023
 Auto Parallel: No
 File System: ext2
 System State: Multi-user run level 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: SmartHeap library V8.1
 Binutils 2.17.50.0.15



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R460
(Intel Xeon processor E5335,2.00GHz)

SPECint_rate2006 = 79.1

SPECint_rate_base2006 = 74.5

CPU2006 license: 20
Test sponsor: Bull SAS
Tested by: Bull SAS

Test date: Jul-2007
Hardware Availability: May-2007
Software Availability: May-2007

Results Table

Benchmark	Base						Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	739	106	746	105	<u>744</u>	<u>105</u>	8	629	124	627	125	<u>629</u>	<u>124</u>
401.bzip2	8	1221	63.2	1228	62.9	<u>1224</u>	<u>63.1</u>	8	1176	65.7	<u>1173</u>	<u>65.8</u>	1170	66.0
403.gcc	8	<u>972</u>	<u>66.3</u>	977	65.9	964	66.8	8	<u>972</u>	<u>66.3</u>	977	65.9	964	66.8
429.mcf	8	<u>1380</u>	<u>52.9</u>	1380	52.9	1383	52.8	8	1377	53.0	1372	53.2	<u>1373</u>	<u>53.2</u>
445.gobmk	8	821	102	813	103	<u>813</u>	<u>103</u>	8	756	111	751	112	<u>752</u>	<u>112</u>
456.hmmer	8	897	83.2	<u>897</u>	<u>83.2</u>	898	83.1	8	716	104	713	105	<u>716</u>	<u>104</u>
458.sjeng	8	1041	93.0	<u>1038</u>	<u>93.2</u>	1038	93.3	8	926	105	929	104	<u>928</u>	<u>104</u>
462.libquantum	8	3506	47.3	3504	47.3	<u>3505</u>	<u>47.3</u>	8	3458	47.9	<u>3457</u>	<u>47.9</u>	3455	48.0
464.h264ref	8	1102	161	<u>1101</u>	<u>161</u>	1100	161	8	1042	170	<u>1042</u>	<u>170</u>	1046	169
471.omnetpp	8	1235	40.5	<u>1233</u>	<u>40.6</u>	1231	40.6	8	1227	40.7	1228	40.7	<u>1228</u>	<u>40.7</u>
473.astar	8	<u>1002</u>	<u>56.0</u>	996	56.4	1002	56.0	8	986	57.0	<u>988</u>	<u>56.8</u>	988	56.8
483.xalancbmk	8	609	90.6	<u>610</u>	<u>90.5</u>	610	90.4	8	609	90.6	<u>610</u>	<u>90.5</u>	610	90.4

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
'/usr/bin/taskset' used to bind processes to CPUs
All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmer,
for peak, are compiled in 64-bit mode

General Notes

The NovaScale R440 and the NovaScale R460 models are electronically equivalent.
The results have been measured on a NovaScale R460 model.

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R460
(Intel Xeon processor E5335,2.00GHz)

SPECint_rate2006 = 79.1

SPECint_rate_base2006 = 74.5

CPU2006 license: 20
Test sponsor: Bull SAS
Tested by: Bull SAS

Test date: Jul-2007
Hardware Availability: May-2007
Software Availability: May-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:
-fast -Wl,-z,muldefs

C++ benchmarks:
-xT -ipo -O3 -no-prec-div -ansi-alias -Wl,-z,muldefs
-L/spec/cpu2006/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.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R460
(Intel Xeon processor E5335,2.00GHz)

SPECint_rate2006 = 79.1

SPECint_rate_base2006 = 74.5

CPU2006 license: 20
Test sponsor: Bull SAS
Tested by: Bull SAS

Test date: Jul-2007
Hardware Availability: May-2007
Software Availability: May-2007

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 -Wl,-z,muldefs

401.bzip2: -prof_gen(pass 1) -prof_use(pass 2) -fast -Wl,-z,muldefs

403.gcc: basepeak = yes

429.mcf: -fast -prefetch -Wl,-z,muldefs

445.gobmk: -prof_gen(pass 1) -prof_use(pass 2) -xT -O2 -ipo
-no-prec_div -ansi-alias -Wl,-z,muldefs

456.hmmer: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll2
-ansi-alias -Wl,-z,muldefs

458.sjeng: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll4
-Wl,-z,muldefs

462.libquantum: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll4 -Ob0
-prefetch -opt-streaming-stores always -Wl,-z,muldefs

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/spec/cpu2006/lib -lsmartheap

473.astar: Same as 471.omnetpp

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R460
(Intel Xeon processor E5335,2.00GHz)

SPECint_rate2006 = 79.1

SPECint_rate_base2006 = 74.5

CPU2006 license: 20
Test sponsor: Bull SAS
Tested by: Bull SAS

Test date: Jul-2007
Hardware Availability: May-2007
Software Availability: May-2007

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/EM64T_Intel100_flags.20090714.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/EM64T_Intel100_flags.20090714.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 14:01:02 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 2 October 2007.