



SPEC[®] CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale T860
(Intel Xeon processor E5320,1.86GHz)

SPECint[®]2006 = 14.0

SPECint_base2006 = 12.7

CPU2006 license: 20

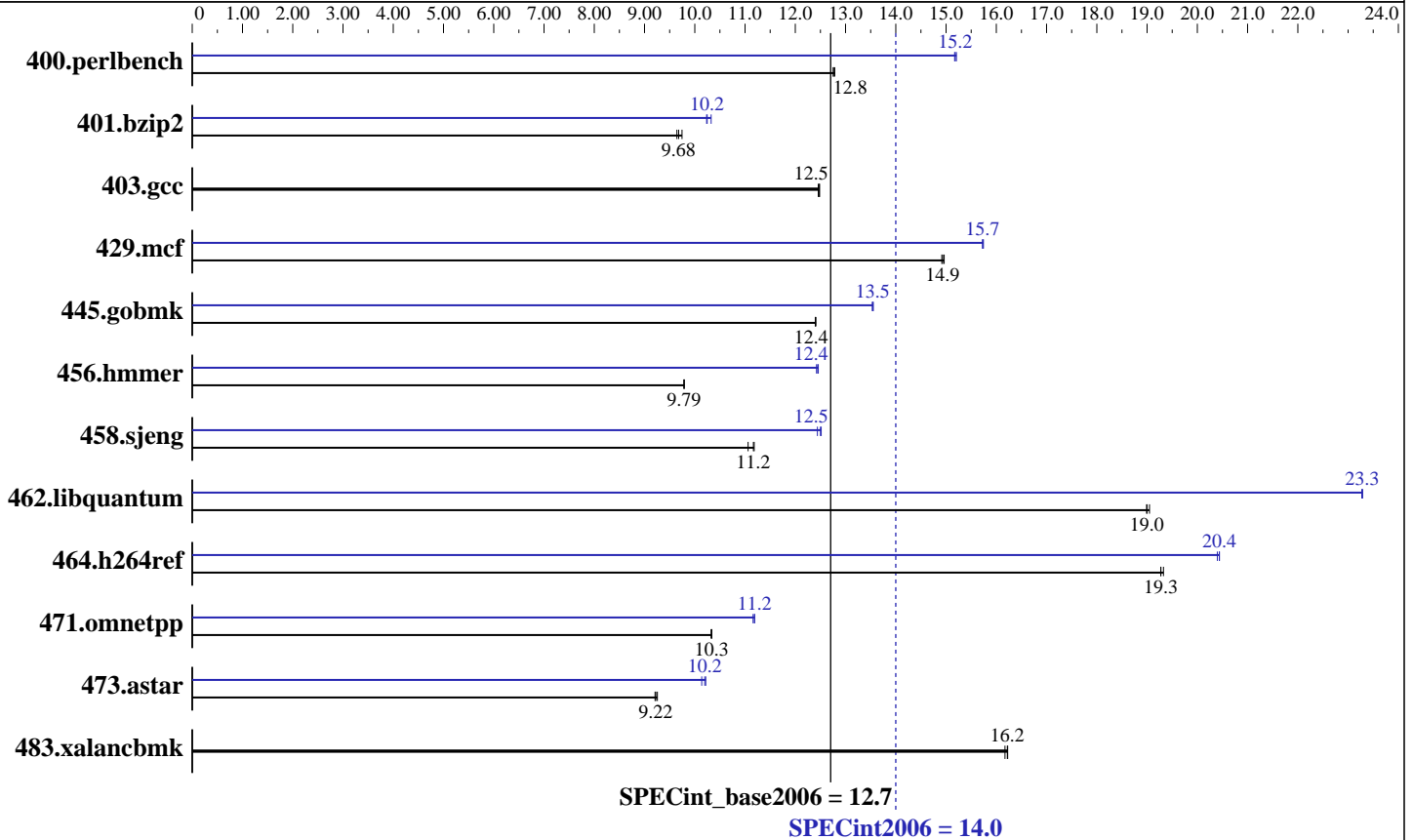
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Aug-2007

Hardware Availability: Mar-2007

Software Availability: May-2007



Hardware

CPU Name: Intel Xeon E5320
 CPU Characteristics: 1.86 GHz, 8 MB L2, 1066 MHz system bus
 CPU MHz: 1860
 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: 12 GB (12x1 GB) FB-DIMM PC2-4200F ECC CL4
 Disk Subsystem: 1x147 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 and Linux64
 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 T860
(Intel Xeon processor E5320,1.86GHz)

SPECint2006 = 14.0

SPECint_base2006 = 12.7

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

Test date: Aug-2007
Hardware Availability: Mar-2007
Software Availability: May-2007

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	764	12.8	<u>766</u>	<u>12.8</u>	766	12.8	644	15.2	<u>643</u>	<u>15.2</u>	643	15.2
401.bzip2	<u>997</u>	<u>9.68</u>	990	9.75	1001	9.64	943	10.2	935	10.3	<u>942</u>	<u>10.2</u>
403.gcc	<u>645</u>	<u>12.5</u>	646	12.5	645	12.5	<u>645</u>	<u>12.5</u>	646	12.5	645	12.5
429.mcf	<u>611</u>	<u>14.9</u>	610	15.0	611	14.9	580	15.7	<u>580</u>	<u>15.7</u>	579	15.7
445.gobmk	<u>846</u>	<u>12.4</u>	846	12.4	845	12.4	775	13.5	<u>775</u>	<u>13.5</u>	774	13.6
456.hmmer	<u>953</u>	<u>9.79</u>	953	9.79	954	9.78	<u>750</u>	<u>12.4</u>	749	12.5	751	12.4
458.sjeng	1094	11.1	<u>1084</u>	<u>11.2</u>	1082	11.2	<u>968</u>	<u>12.5</u>	973	12.4	967	12.5
462.libquantum	1091	19.0	<u>1091</u>	<u>19.0</u>	1088	19.0	890	23.3	890	23.3	<u>890</u>	<u>23.3</u>
464.h264ref	1145	19.3	1148	19.3	<u>1148</u>	<u>19.3</u>	1085	20.4	<u>1083</u>	<u>20.4</u>	1083	20.4
471.omnetpp	<u>605</u>	<u>10.3</u>	605	10.3	605	10.3	<u>559</u>	<u>11.2</u>	559	11.2	560	11.2
473.astar	762	9.21	<u>761</u>	<u>9.22</u>	758	9.26	692	10.1	<u>688</u>	<u>10.2</u>	687	10.2
483.xalancbmk	425	16.2	<u>425</u>	<u>16.2</u>	427	16.2	425	16.2	<u>425</u>	<u>16.2</u>	427	16.2

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

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

Base Portability Flags

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



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale T860
(Intel Xeon processor E5320,1.86GHz)

SPECint2006 = 14.0

SPECint_base2006 = 12.7

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

Test date: Aug-2007
Hardware Availability: Mar-2007
Software Availability: May-2007

Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:
-xT -ipo -O3 -no-prec-div -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
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale T860
(Intel Xeon processor E5320,1.86GHz)

SPECint2006 = 14.0

SPECint_base2006 = 12.7

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

Test date: Aug-2007
Hardware Availability: Mar-2007
Software Availability: May-2007

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/spec/cpu2006/lib -lsmartheap

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/EM64T_Intel100_flags.20090714.01.html

You can also download the XML flags source by saving the following link:

http://www.spec.org/cpu2006/flags/EM64T_Intel100_flags.20090714.01.xml



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale T860
(Intel Xeon processor E5320,1.86GHz)

SPECint2006 = 14.0

SPECint_base2006 = 12.7

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

Test date: Aug-2007
Hardware Availability: Mar-2007
Software Availability: May-2007

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 14:52:54 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 16 October 2007.