



SPEC® CINT2006 Result

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Bull SAS

NovaScale T860
(Intel Xeon processor E5320,1.86GHz)

SPECint®2006 = 14.0

SPECint_base2006 = 12.7

CPU2006 license: 20

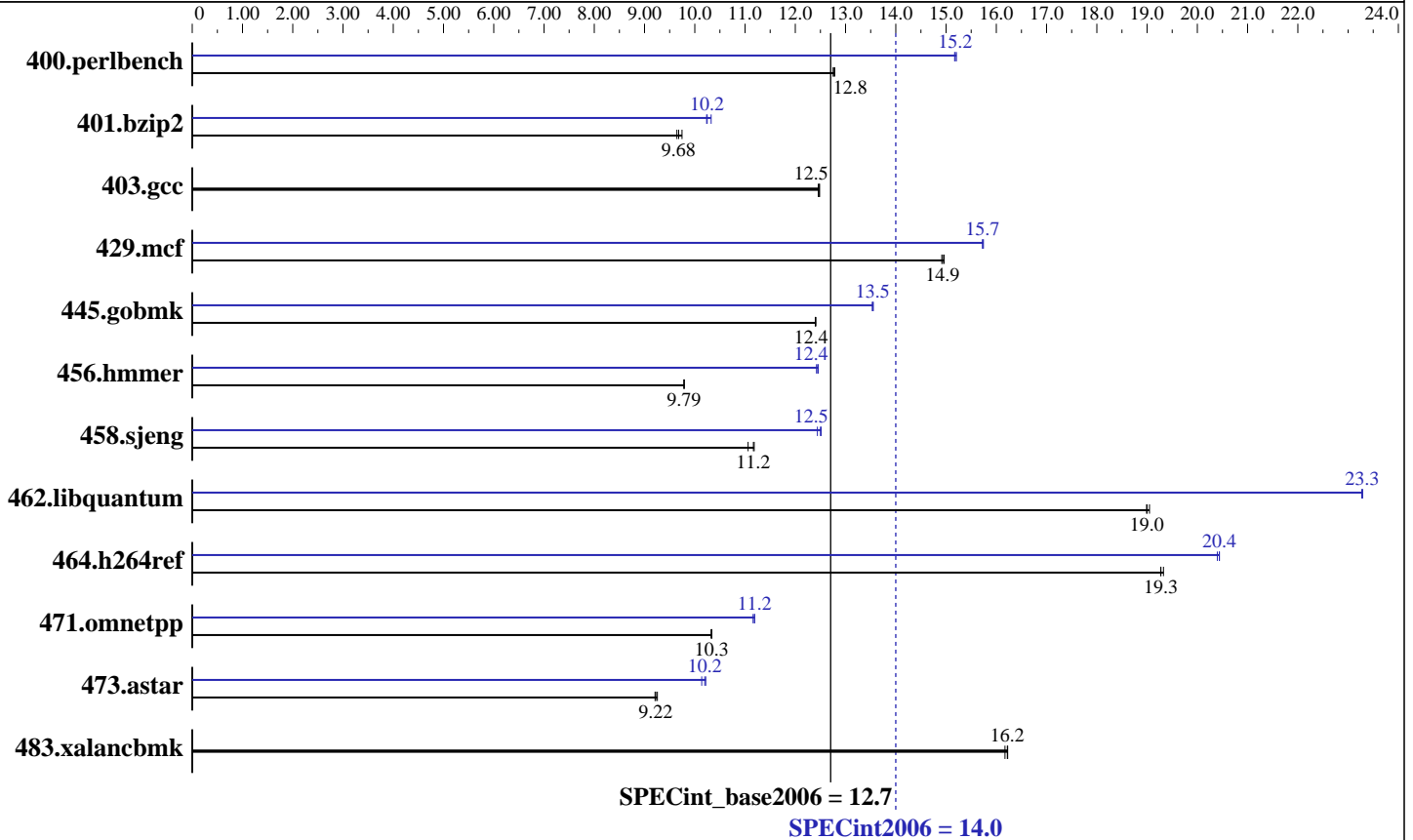
Test sponsor: Bull SAS

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



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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



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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



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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/spec/cpu2006/lib -lsmartheap

473.astar: Same as 471.omnetpp

483.xalancbmk: basepeak = yes

Peak Other Flags

Same as Base Other Flags

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



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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 14 13:22:39 2009 by SPEC CPU2006 PS/PDF formatter v6323.