



SPEC® CINT2006 Result

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Bull SAS

NovaScale R422
(Intel Xeon processor 5160,3.00GHz)

SPECint®2006 = 21.0

SPECint_base2006 = 19.0

CPU2006 license: 20

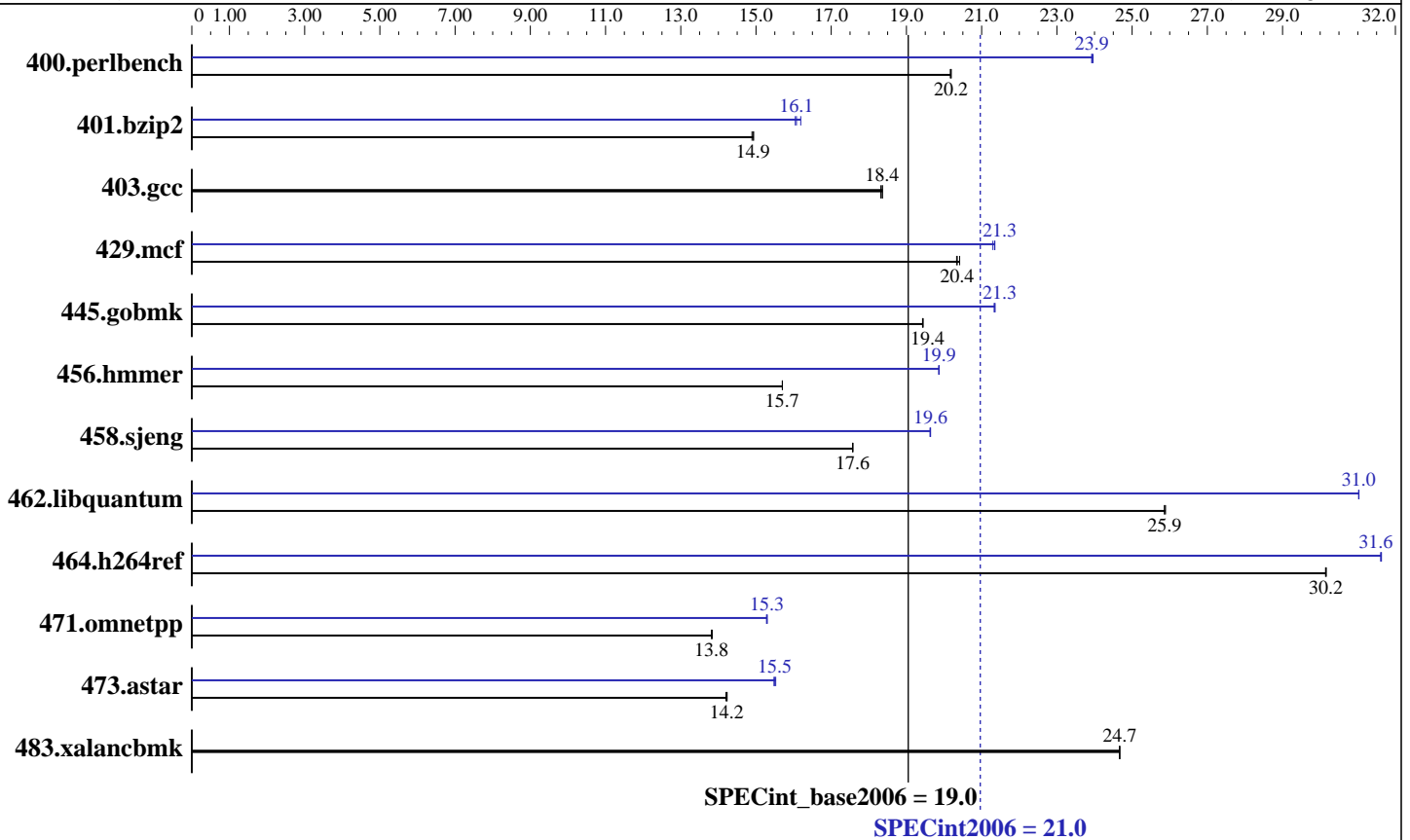
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Sep-2007

Hardware Availability: Aug-2007

Software Availability: Aug-2007



Hardware

CPU Name: Intel Xeon 5160
 CPU Characteristics: 3.00 GHz, 4 MB L2, 1333 MHz system bus
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1 to 2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (8x1 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 20070809 Package ID: l_cc_p_10.0.026
 Auto Parallel: No
 File System: ext3
 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	484	20.2	484	20.2	484	20.2	408	24.0	408	23.9	408	23.9
401.bzip2	647	14.9	646	14.9	648	14.9	600	16.1	601	16.0	596	16.2
403.gcc	439	18.4	439	18.3	438	18.4	439	18.4	439	18.3	438	18.4
429.mcf	448	20.4	447	20.4	449	20.3	427	21.4	428	21.3	427	21.3
445.gobmk	540	19.4	540	19.4	540	19.4	491	21.4	492	21.3	492	21.3
456.hmmer	594	15.7	594	15.7	594	15.7	470	19.9	470	19.9	470	19.9
458.sjeng	689	17.6	688	17.6	689	17.6	616	19.6	617	19.6	616	19.6
462.libquantum	801	25.9	801	25.9	800	25.9	668	31.0	668	31.0	668	31.0
464.h264ref	734	30.1	734	30.2	734	30.2	700	31.6	700	31.6	700	31.6
471.omnetpp	452	13.8	452	13.8	452	13.8	409	15.3	409	15.3	409	15.3
473.astar	494	14.2	494	14.2	493	14.2	454	15.5	453	15.5	452	15.5
483.xalancbmk	280	24.7	280	24.7	280	24.7	280	24.7	280	24.7	280	24.7

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
The R422 is built with two identical (half size) motherboards.
Only one of the two motherboards was powered on during the test 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/tmp/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/10.0.026/bin/icc
-L/opt/intel/cce/10.0.026/lib
-I/opt/intel/cce/10.0.026/include

456.hmmer: /opt/intel/cce/10.0.026/bin/icc
-L/opt/intel/cce/10.0.026/lib
-I/opt/intel/cce/10.0.026/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/tmp/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.html

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

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



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