



SPEC® CINT2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor 5130,2.00GHz)

SPECint®_rate2006 = 42.4

SPECint_rate_base2006 = 40.8

CPU2006 license: 20

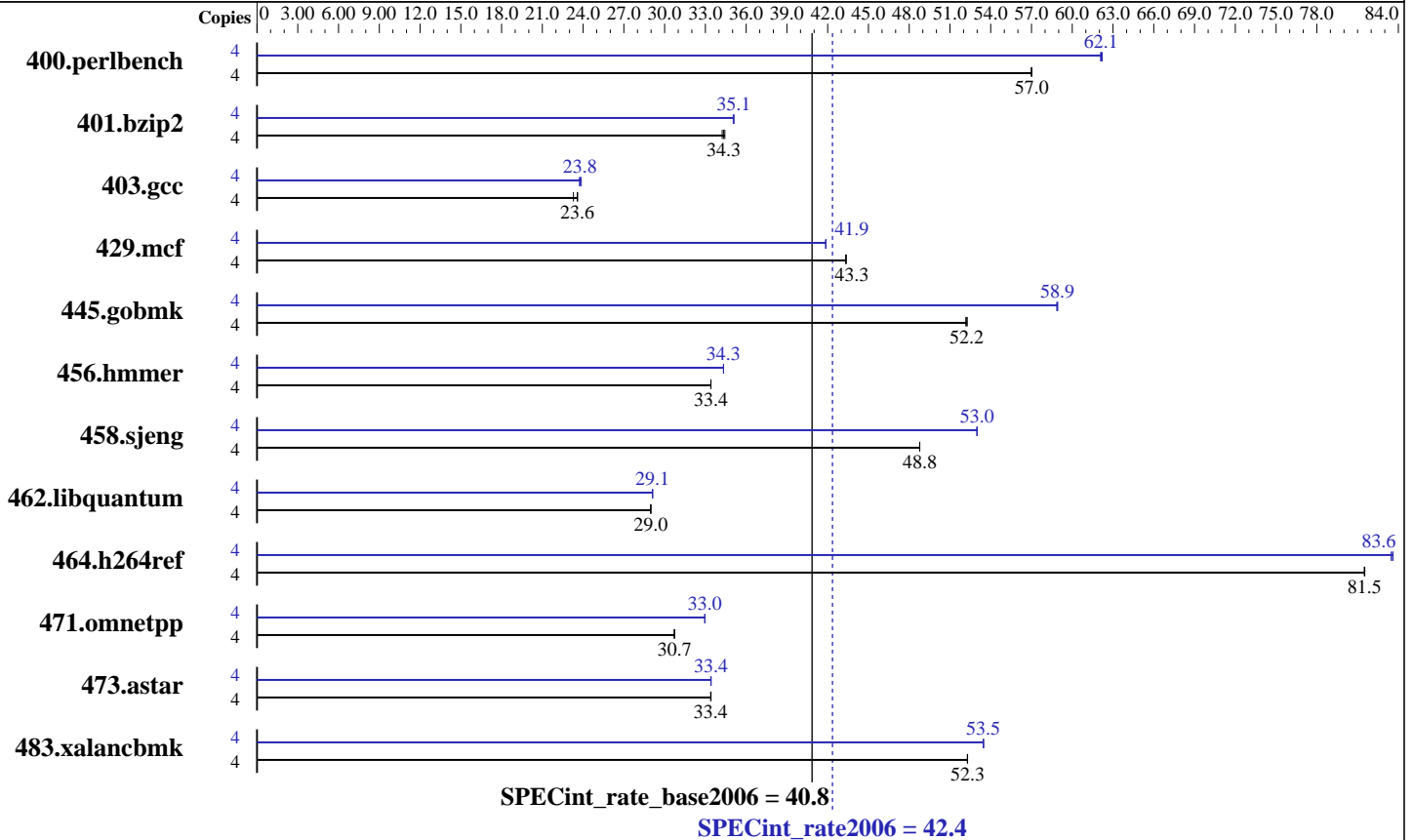
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Feb-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5130
 CPU Characteristics: 2.00 GHz, 4 MB L2, 1333 MHz system bus
 CPU MHz: 2000
 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: 24 GB (12x2 GB) FB-DIMM PC2-5300F ECC CL5
 Disk Subsystem: 1x73 GB SAS, 15000 RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise Edition X64 Edition Service Pack 1
 Compiler: Intel C++ Compiler for IA32 version 9.1
 Package ID W_CC_C_9.1.033 Build no 20061103Z
 Microsoft Visual Studio .NET 2003 (lib & linker)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: MicroQuill SmartHeap Library 8.0 (shIW32M.lib)



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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	685	57.0	686	57.0	685	57.0	4	628	62.2	629	62.1	629	62.1
401.bzip2	4	1121	34.4	1124	34.3	1127	34.2	4	1100	35.1	1101	35.0	1100	35.1
403.gcc	4	1366	23.6	1383	23.3	1365	23.6	4	1349	23.9	1357	23.7	1354	23.8
429.mcf	4	842	43.3	842	43.3	841	43.4	4	871	41.9	872	41.8	871	41.9
445.gobmk	4	803	52.3	803	52.2	804	52.2	4	712	58.9	712	58.9	713	58.9
456.hammer	4	1117	33.4	1117	33.4	1117	33.4	4	1087	34.3	1087	34.3	1087	34.3
458.sjeng	4	992	48.8	992	48.8	992	48.8	4	913	53.0	914	53.0	913	53.0
462.libquantum	4	2860	29.0	2860	29.0	2861	29.0	4	2847	29.1	2847	29.1	2847	29.1
464.h264ref	4	1086	81.5	1086	81.5	1086	81.5	4	1059	83.6	1061	83.5	1059	83.6
471.omnetpp	4	813	30.7	814	30.7	814	30.7	4	758	33.0	758	33.0	759	33.0
473.astar	4	841	33.4	840	33.4	841	33.4	4	840	33.4	841	33.4	840	33.4
483.xalancbmk	4	528	52.3	528	52.3	528	52.3	4	516	53.5	516	53.4	516	53.5

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

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:
icl -Qvc7.1 -Qc99

C++ benchmarks:
icl -Qvc7.1

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32

Base Optimization Flags

C benchmarks:
-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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Base Optimization Flags (Continued)

C++ benchmarks:
-fast -Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99

C++ benchmarks:
icl -Qvc7.1

Peak Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32

Peak Optimization Flags

C benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

C++ benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

Peak Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca



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The flags file that was used to format this result can be browsed at
<http://www.spec.org/cpu2006/flags/flags.20090714.00.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/flags.20090714.00.xml>

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