



SPEC® CINT2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor 5150,2.66GHz)

SPECint®_rate2006 = 50.8

SPECint_rate_base2006 = 49.0

CPU2006 license: 20

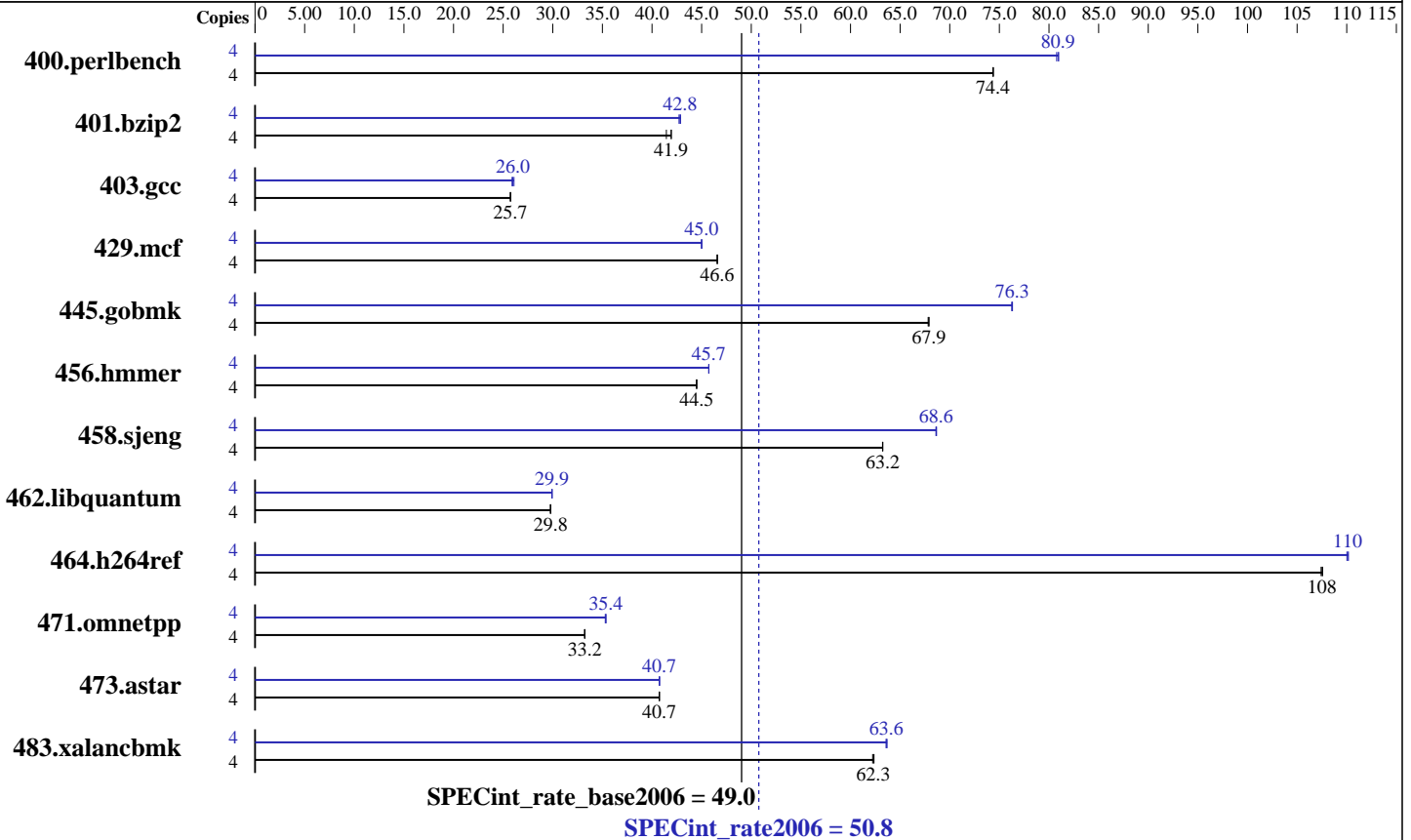
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5150
 CPU Characteristics: 2.66 GHz, 4 MB L2, 1333 MHz system bus
 CPU MHz: 2666
 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	526	74.3	525	74.4	526	74.4	4	483	81.0	484	80.8	483	80.9
401.bzip2	4	931	41.4	921	41.9	920	41.9	4	904	42.7	902	42.8	900	42.9
403.gcc	4	1251	25.7	1251	25.7	1251	25.7	4	1240	26.0	1243	25.9	1234	26.1
429.mcf	4	783	46.6	783	46.6	783	46.6	4	811	45.0	811	45.0	811	45.0
445.gobmk	4	618	67.9	619	67.8	618	67.9	4	550	76.3	550	76.3	550	76.2
456.hammer	4	839	44.5	839	44.5	839	44.5	4	816	45.7	816	45.7	816	45.7
458.sjeng	4	765	63.2	766	63.2	765	63.2	4	705	68.6	705	68.7	705	68.6
462.libquantum	4	2783	29.8	2783	29.8	2784	29.8	4	2770	29.9	2770	29.9	2770	29.9
464.h264ref	4	824	107	823	108	823	108	4	803	110	805	110	804	110
471.omnetpp	4	752	33.2	753	33.2	753	33.2	4	707	35.4	707	35.4	708	35.3
473.astar	4	689	40.7	689	40.7	689	40.7	4	689	40.7	689	40.7	689	40.8
483.xalancbmk	4	443	62.4	443	62.3	444	62.2	4	434	63.6	434	63.6	433	63.7

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



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Base Optimization Flags

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

Continued on next page



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Peak Other Flags (Continued)

403.gcc: -Dalloca=_alloca

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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