



SPEC® CINT2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor 5110,1.60GHz)

SPECint®_rate2006 = 34.2

SPECint_rate_base2006 = 32.9

CPU2006 license: 20

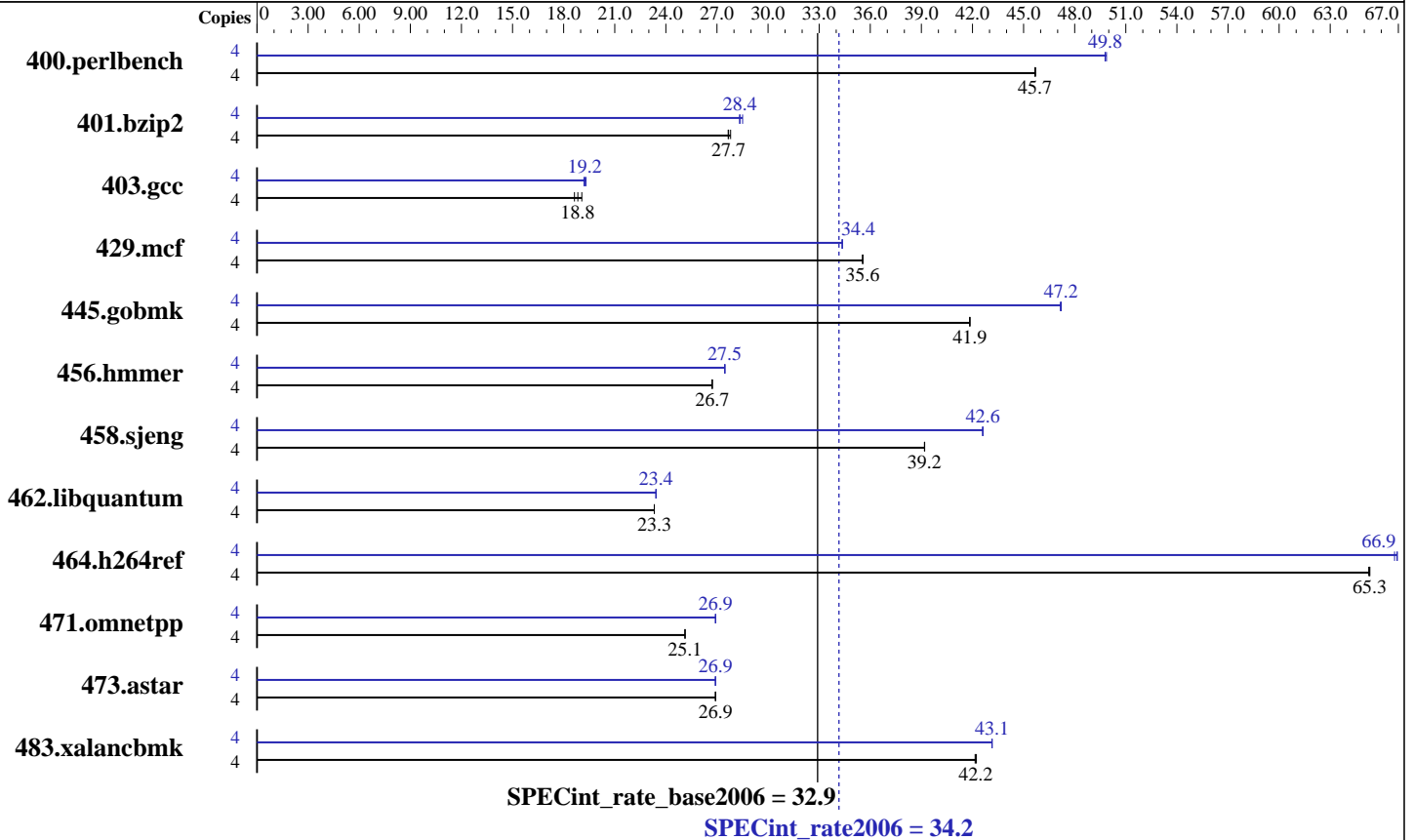
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Feb-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5110
 CPU Characteristics: 1.60 GHz, 4 MB L2, 1066 MHz system bus
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 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	856	45.7	856	45.7	855	45.7	4	785	49.8	784	49.9	785	49.8
401.bzip2	4	1396	27.7	1388	27.8	1394	27.7	4	1361	28.4	1354	28.5	1363	28.3
403.gcc	4	1689	19.1	1710	18.8	1728	18.6	4	1667	19.3	1673	19.2	1677	19.2
429.mcf	4	1026	35.6	1026	35.6	1026	35.6	4	1062	34.4	1062	34.3	1062	34.4
445.gobmk	4	1003	41.9	1003	41.8	1003	41.9	4	889	47.2	889	47.2	890	47.2
456.hammer	4	1396	26.7	1397	26.7	1397	26.7	4	1359	27.5	1359	27.5	1359	27.5
458.sjeng	4	1235	39.2	1235	39.2	1235	39.2	4	1136	42.6	1136	42.6	1136	42.6
462.libquantum	4	3554	23.3	3554	23.3	3553	23.3	4	3539	23.4	3538	23.4	3539	23.4
464.h264ref	4	1355	65.3	1356	65.3	1355	65.3	4	1323	66.9	1326	66.8	1323	66.9
471.omnetpp	4	995	25.1	995	25.1	995	25.1	4	929	26.9	929	26.9	929	26.9
473.astar	4	1044	26.9	1043	26.9	1043	26.9	4	1043	26.9	1043	26.9	1044	26.9
483.xalancbmk	4	655	42.2	654	42.2	654	42.2	4	640	43.2	640	43.1	640	43.1

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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