



SPEC[®] CINT2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor 5110,1.60GHz)

SPECint[®]2006 = 10.4

SPECint_base2006 = 10.0

CPU2006 license: 20

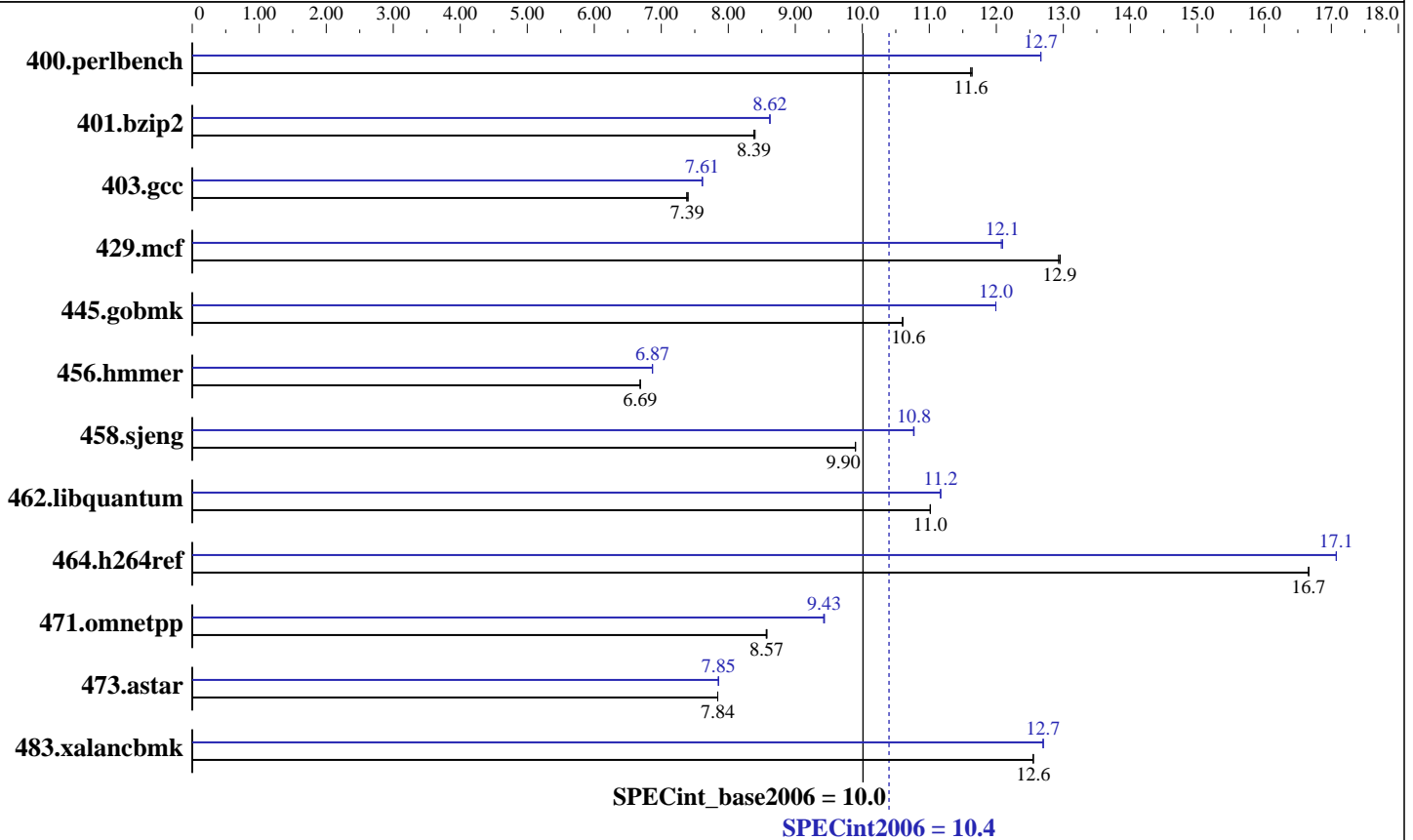
Test sponsor: Bull SAS

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: 1 core, 1 chip, 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 Pack1
 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	839	11.6	841	11.6	841	11.6	771	12.7	772	12.7	772	12.7
401.bzip2	1149	8.40	1151	8.39	1151	8.39	1119	8.62	1119	8.62	1119	8.62
403.gcc	1088	7.40	1090	7.39	1091	7.38	1057	7.62	1058	7.61	1058	7.61
429.mcf	705	12.9	704	13.0	704	12.9	755	12.1	754	12.1	754	12.1
445.gobmk	989	10.6	989	10.6	990	10.6	875	12.0	875	12.0	875	12.0
456.hammer	1395	6.69	1395	6.69	1395	6.69	1358	6.87	1358	6.87	1358	6.87
458.sjeng	1223	9.90	1223	9.90	1222	9.90	1123	10.8	1123	10.8	1124	10.8
462.libquantum	1881	11.0	1881	11.0	1881	11.0	1855	11.2	1855	11.2	1855	11.2
464.h264ref	1328	16.7	1328	16.7	1328	16.7	1296	17.1	1296	17.1	1296	17.1
471.omnetpp	730	8.57	729	8.57	729	8.58	663	9.43	663	9.43	663	9.42
473.astar	895	7.84	895	7.84	895	7.84	894	7.85	894	7.85	894	7.85
483.xalancbmk	550	12.6	550	12.6	550	12.5	543	12.7	543	12.7	543	12.7

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

Operating System Notes

/NUMPROC=1 flags was added to boot.ini invoke uniprocessor environment

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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