



SPEC® CINT2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor E5310,1.60GHz)

SPECint®2006 = 10.5

SPECint_base2006 = 10.1

CPU2006 license: 20

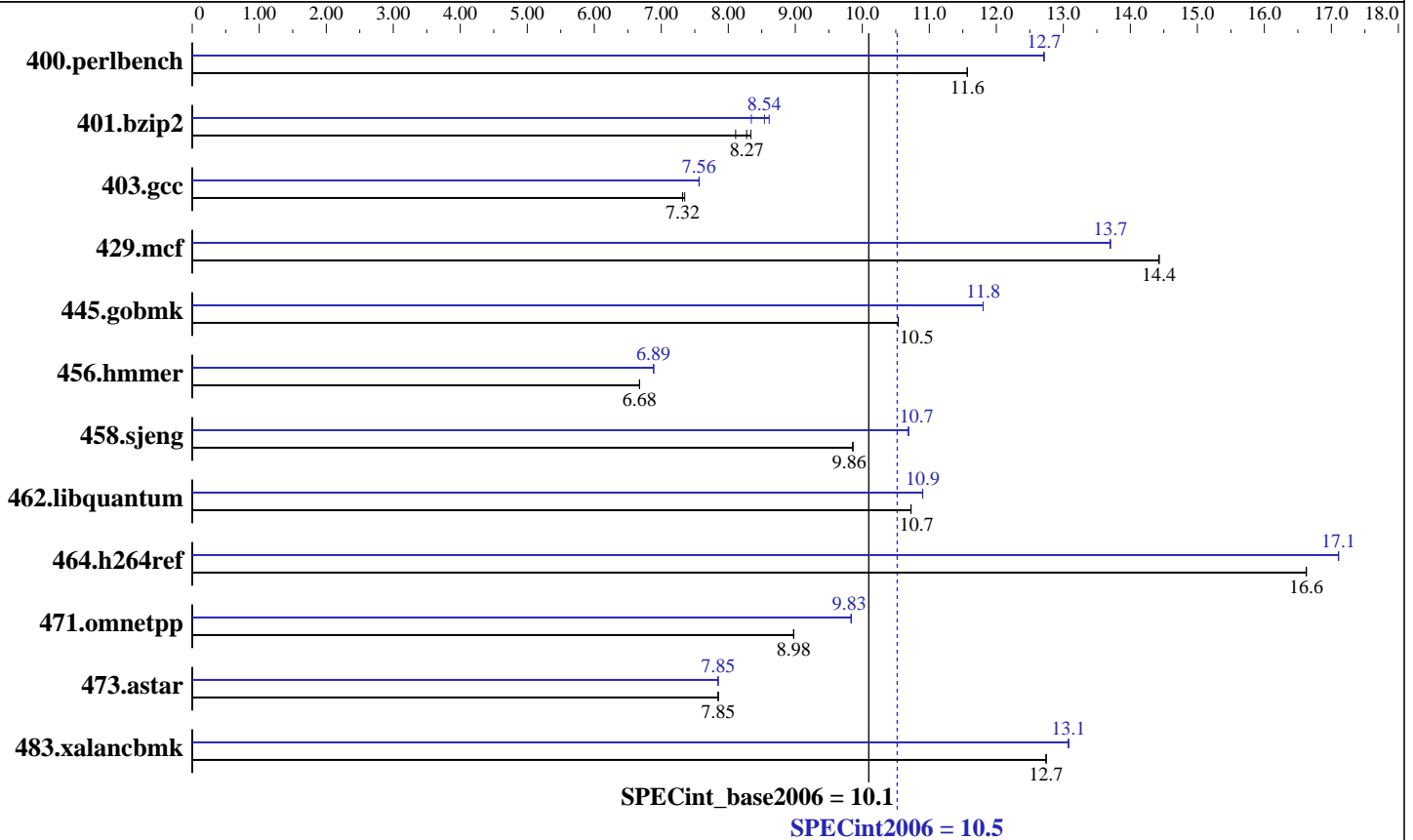
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Apr-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon E5310
 CPU Characteristics: 1.60 GHz, 8MB L2, 1066MHz bus
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 4 cores/chip
 CPU(s) orderable: 1 to 2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 12 GB (1GB DIMMx12, FB-DIMM PC2-5300F ECC CL5)
 Disk Subsystem: 73 GB SAS, 10000RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	845	11.6	844	11.6	844	11.6	769	12.7	768	12.7	768	12.7
401.bzip2	1157	8.34	1190	8.11	1166	8.27	1121	8.61	1157	8.34	1130	8.54
403.gcc	1095	7.35	1100	7.32	1100	7.32	1064	7.57	1064	7.56	1064	7.56
429.mcf	632	14.4	632	14.4	632	14.4	665	13.7	666	13.7	666	13.7
445.gobmk	996	10.5	996	10.5	996	10.5	889	11.8	889	11.8	889	11.8
456.hammer	1398	6.68	1398	6.68	1398	6.68	1355	6.89	1355	6.89	1355	6.88
458.sjeng	1227	9.86	1227	9.86	1227	9.86	1132	10.7	1132	10.7	1132	10.7
462.libquantum	1932	10.7	1932	10.7	1932	10.7	1901	10.9	1901	10.9	1901	10.9
464.h264ref	1331	16.6	1331	16.6	1331	16.6	1294	17.1	1294	17.1	1294	17.1
471.omnetpp	696	8.98	696	8.98	696	8.98	636	9.83	636	9.83	636	9.83
473.astar	894	7.85	894	7.85	894	7.85	894	7.85	895	7.85	895	7.85
483.xalancbmk	541	12.7	541	12.7	542	12.7	527	13.1	528	13.1	528	13.1

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

Operating System Notes

/NUMPROC=1 flag was added to boot.ini to 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



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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

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



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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/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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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 12:12:44 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 15 May 2007.