



SPEC® CINT2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor 5140,2.33GHz)

SPECint®2006 = 14.5

SPECint_base2006 = 13.9

CPU2006 license: 20

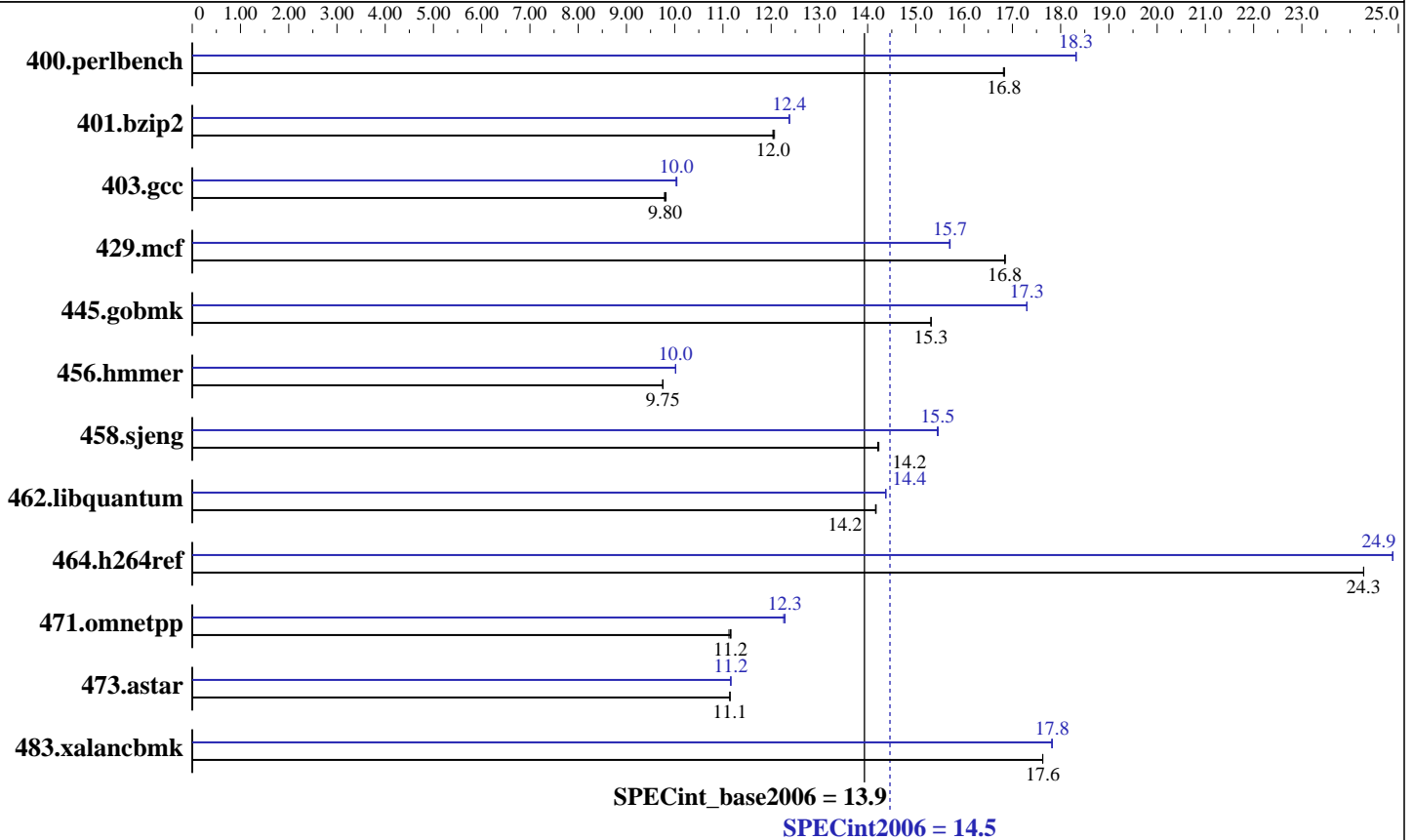
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Feb-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5140
 CPU Characteristics: 2.33 GHz, 4 MB L2, 1333 MHz system bus
 CPU MHz: 2333
 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 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	580	16.8	<u>581</u>	<u>16.8</u>	581	16.8	533	18.3	533	18.3	<u>533</u>	<u>18.3</u>
401.bzip2	800	12.1	<u>801</u>	<u>12.0</u>	802	12.0	780	12.4	780	12.4	<u>780</u>	<u>12.4</u>
403.gcc	820	9.82	<u>821</u>	<u>9.80</u>	822	9.79	<u>802</u>	<u>10.0</u>	803	10.0	801	10.0
429.mcf	542	16.8	<u>541</u>	<u>16.8</u>	541	16.9	581	15.7	581	15.7	<u>581</u>	<u>15.7</u>
445.gobmk	685	15.3	<u>685</u>	<u>15.3</u>	685	15.3	606	17.3	606	17.3	<u>606</u>	<u>17.3</u>
456.hammer	956	9.76	957	9.75	<u>957</u>	<u>9.75</u>	<u>931</u>	<u>10.0</u>	931	10.0	931	10.0
458.sjeng	850	14.2	852	14.2	<u>851</u>	<u>14.2</u>	783	15.5	<u>783</u>	<u>15.5</u>	783	15.4
462.libquantum	1462	14.2	1463	14.2	<u>1463</u>	<u>14.2</u>	1441	14.4	1441	14.4	<u>1441</u>	<u>14.4</u>
464.h264ref	911	24.3	<u>911</u>	<u>24.3</u>	911	24.3	889	24.9	<u>889</u>	<u>24.9</u>	889	24.9
471.omnetpp	562	11.1	<u>560</u>	<u>11.2</u>	560	11.2	509	12.3	510	12.3	<u>509</u>	<u>12.3</u>
473.astar	630	11.1	<u>630</u>	<u>11.1</u>	630	11.1	<u>629</u>	<u>11.2</u>	629	11.2	629	11.2
483.xalancbmk	391	17.6	<u>391</u>	<u>17.6</u>	391	17.6	387	17.8	<u>387</u>	<u>17.8</u>	387	17.8

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:

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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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