



SPEC® CINT2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor E5335,2.00GHz)

SPECint®2006 = 12.9

SPECint_base2006 = 12.4

CPU2006 license: 20

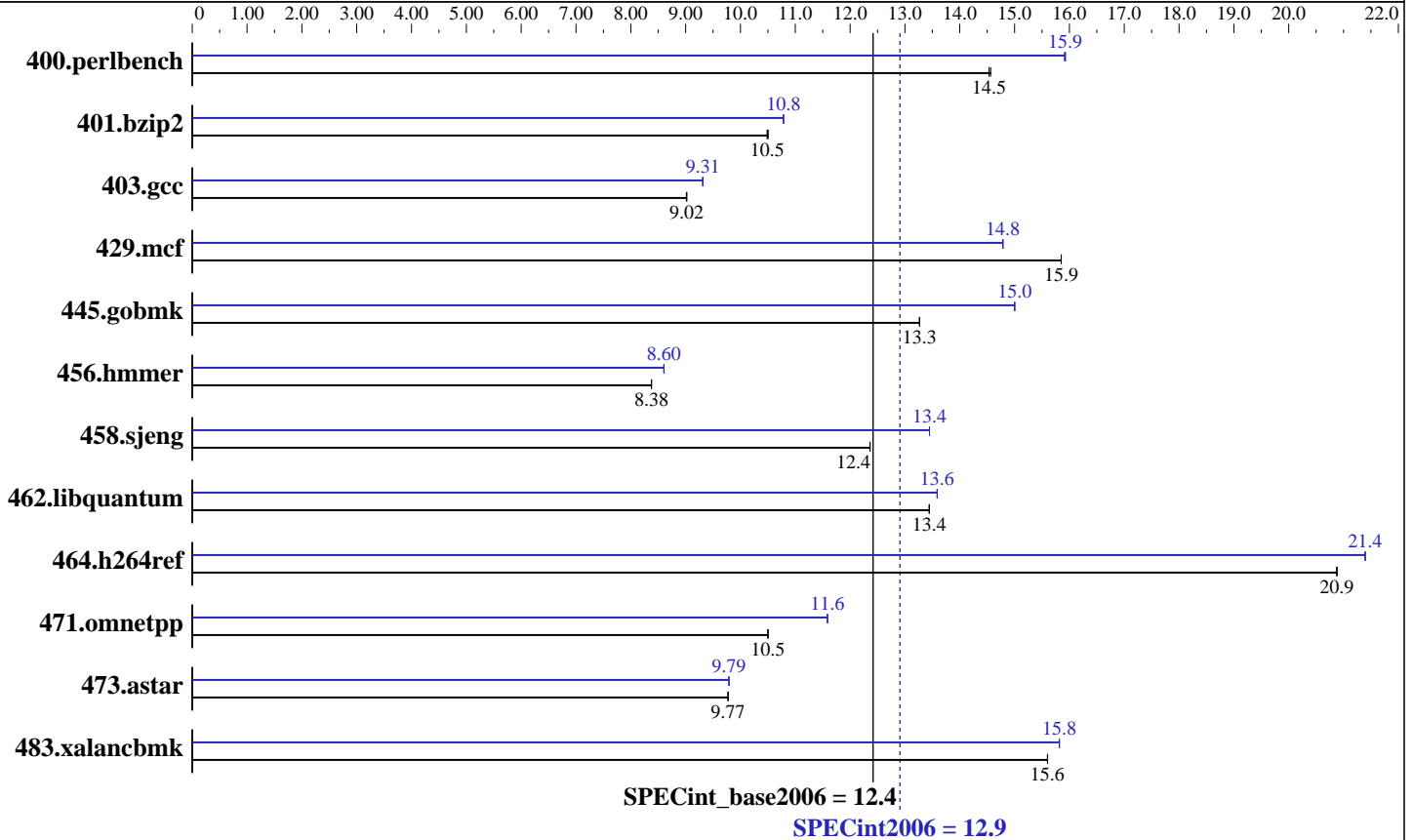
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Apr-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon E5335
 CPU Characteristics: 2.00 GHz, 8MB L2, 1333MHz bus
 CPU MHz: 2000
 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: 24 GB (2GB DIMMx12, FB-DIMM PC2-5300F ECC CL5)
 Disk Subsystem: 73 GB SAS, 10000RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 R2 Enterprise 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	671	14.6	672	14.5	<u>672</u>	<u>14.5</u>	614	15.9	<u>614</u>	<u>15.9</u>	613	15.9
401.bzip2	919	10.5	<u>920</u>	<u>10.5</u>	920	10.5	895	10.8	895	10.8	<u>895</u>	<u>10.8</u>
403.gcc	892	9.02	893	9.01	<u>893</u>	<u>9.02</u>	864	9.31	865	9.31	<u>864</u>	<u>9.31</u>
429.mcf	575	15.9	575	15.9	<u>575</u>	<u>15.9</u>	617	14.8	617	14.8	<u>617</u>	<u>14.8</u>
445.gobmk	791	13.3	791	13.3	<u>791</u>	<u>13.3</u>	699	15.0	<u>699</u>	<u>15.0</u>	699	15.0
456.hammer	1114	8.38	<u>1114</u>	<u>8.38</u>	1114	8.38	1084	8.60	1084	8.60	<u>1084</u>	<u>8.60</u>
458.sjeng	979	12.4	<u>979</u>	<u>12.4</u>	979	12.4	<u>900</u>	<u>13.4</u>	900	13.4	900	13.4
462.libquantum	1541	13.4	1541	13.4	<u>1541</u>	<u>13.4</u>	1525	13.6	<u>1525</u>	<u>13.6</u>	1525	13.6
464.h264ref	1060	20.9	1060	20.9	<u>1060</u>	<u>20.9</u>	1034	21.4	1034	21.4	<u>1034</u>	<u>21.4</u>
471.omnetpp	595	10.5	595	10.5	<u>595</u>	<u>10.5</u>	539	11.6	<u>539</u>	<u>11.6</u>	539	11.6
473.astar	718	9.77	<u>718</u>	<u>9.77</u>	718	9.77	<u>717</u>	<u>9.79</u>	717	9.79	717	9.79
483.xalancbmk	442	15.6	442	15.6	<u>442</u>	<u>15.6</u>	<u>436</u>	<u>15.8</u>	436	15.8	436	15.8

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 R440 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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