



SPEC[®] CINT2006 Result

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Bull SAS

NovaScale R460
(Intel Xeon processor 5130,2.00GHz)

SPECint[®]2006 = 12.9

SPECint_base2006 = 12.4

CPU2006 license: 20

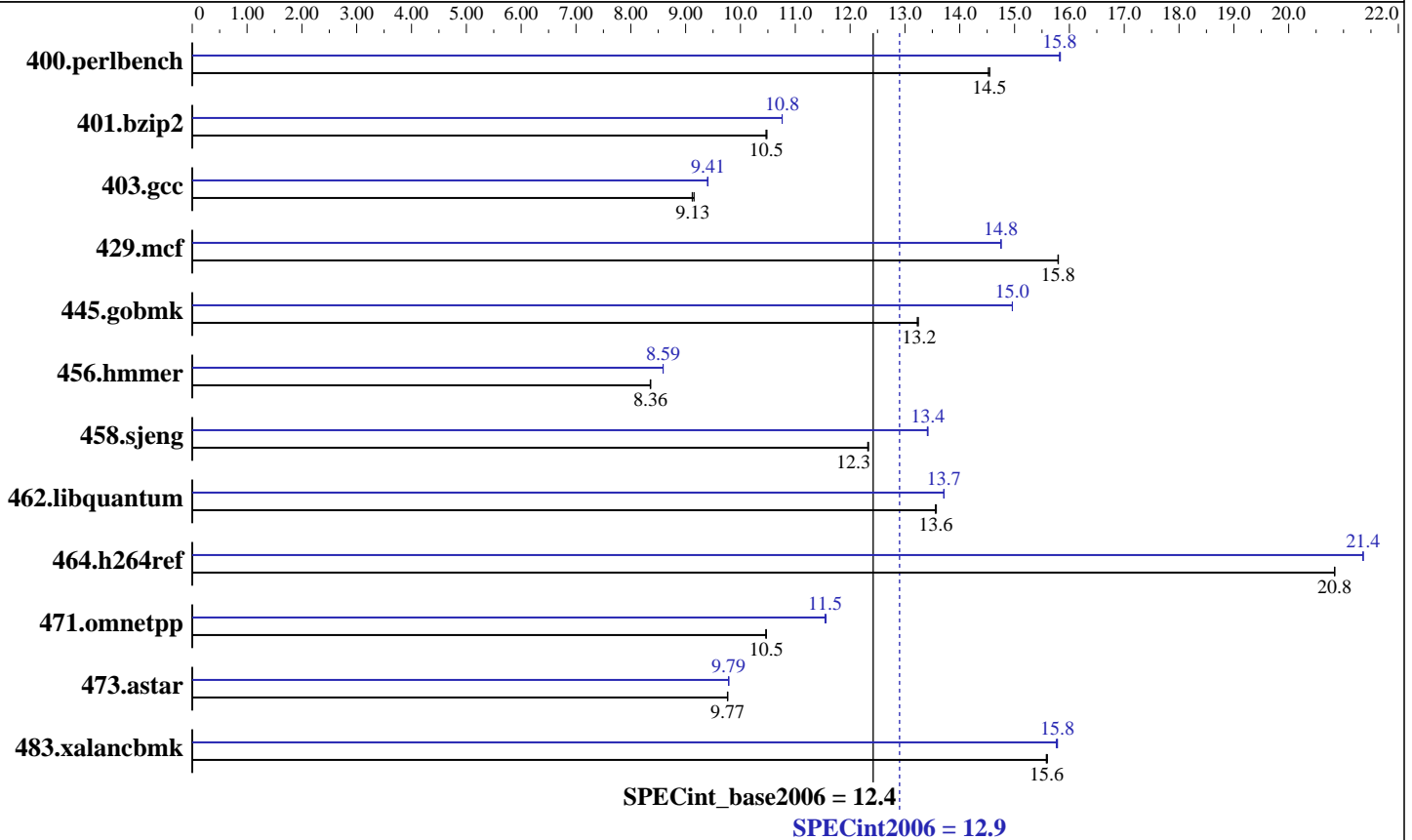
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Feb-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5130
 CPU Characteristics: 2.00 GHz, 4 MB L2, 1333 MHz system bus
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 to 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	<u>672</u>	<u>14.5</u>	672	14.5	673	14.5	<u>617</u>	<u>15.8</u>	617	15.8	618	15.8
401.bzip2	920	10.5	<u>922</u>	<u>10.5</u>	922	10.5	897	10.8	897	10.8	<u>897</u>	<u>10.8</u>
403.gcc	879	9.16	<u>882</u>	<u>9.13</u>	883	9.12	856	9.41	<u>856</u>	<u>9.41</u>	857	9.40
429.mcf	578	15.8	<u>577</u>	<u>15.8</u>	577	15.8	<u>618</u>	<u>14.8</u>	618	14.7	618	14.8
445.gobmk	793	13.2	792	13.2	<u>793</u>	<u>13.2</u>	<u>701</u>	<u>15.0</u>	701	15.0	701	15.0
456.hammer	1117	8.35	<u>1116</u>	<u>8.36</u>	1116	8.36	1086	8.59	1086	8.59	<u>1086</u>	<u>8.59</u>
458.sjeng	982	12.3	<u>982</u>	<u>12.3</u>	981	12.3	902	13.4	902	13.4	<u>902</u>	<u>13.4</u>
462.libquantum	1529	13.6	<u>1528</u>	<u>13.6</u>	1526	13.6	1512	13.7	<u>1511</u>	<u>13.7</u>	1511	13.7
464.h264ref	1062	20.8	1062	20.8	<u>1062</u>	<u>20.8</u>	<u>1036</u>	<u>21.4</u>	1036	21.4	1036	21.4
471.omnetpp	<u>597</u>	<u>10.5</u>	597	10.5	597	10.5	541	11.5	<u>541</u>	<u>11.5</u>	541	11.6
473.astar	<u>719</u>	<u>9.77</u>	719	9.76	719	9.77	<u>717</u>	<u>9.79</u>	717	9.79	717	9.78
483.xalancbmk	<u>443</u>	<u>15.6</u>	443	15.6	442	15.6	438	15.8	437	15.8	<u>437</u>	<u>15.8</u>

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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