



SPEC® CINT2006 Result

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Bull SAS

NovaScale R460
(Intel Xeon processor 5120,1.86GHz)

SPECint®2006 = 11.7

SPECint_base2006 = 11.3

CPU2006 license: 20

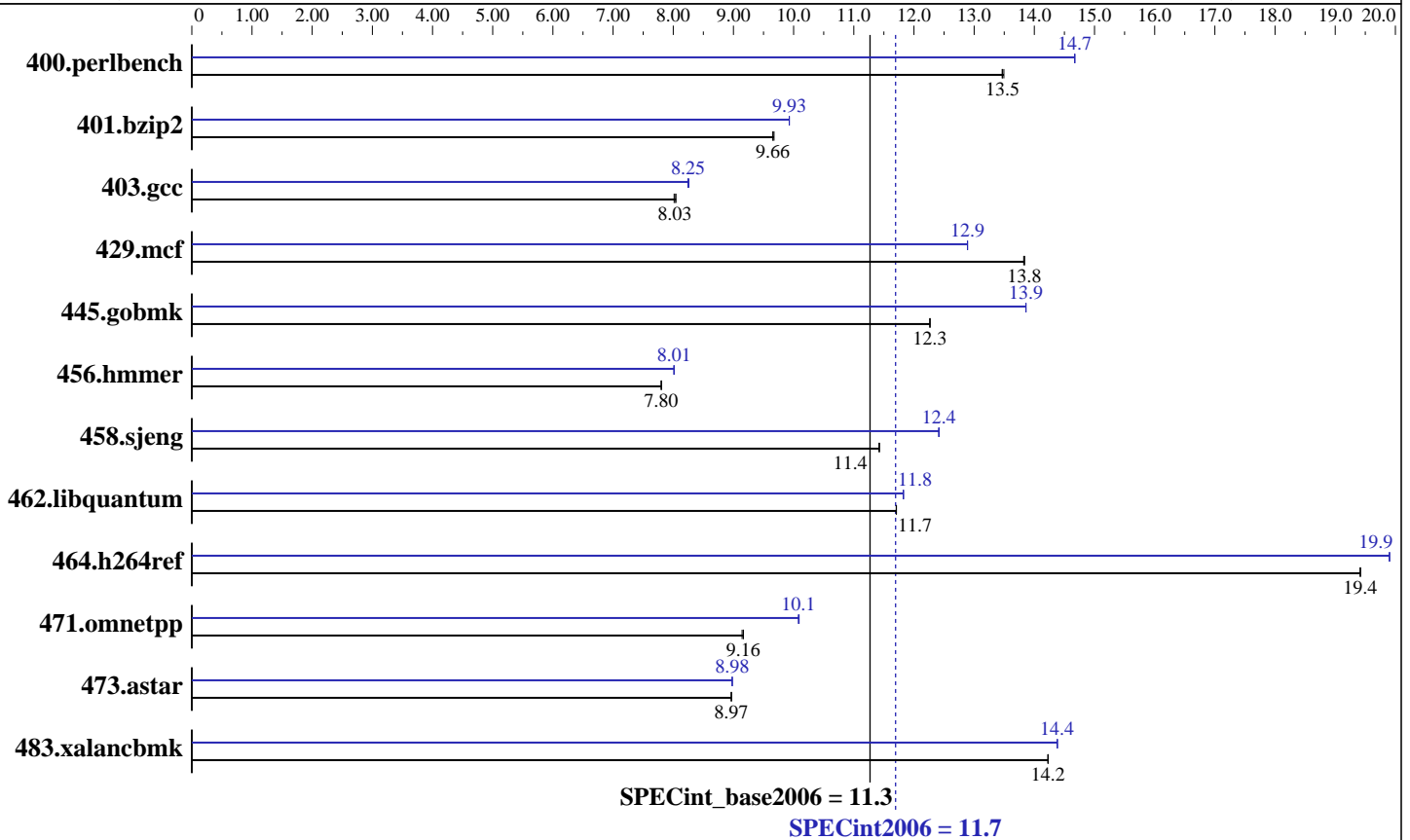
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Feb-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5120
 CPU Characteristics: 1.86 GHz, 4 MB L2, 1066 MHz system bus
 CPU MHz: 1866
 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	724	13.5	<u>725</u>	<u>13.5</u>	726	13.5	666	14.7	<u>666</u>	<u>14.7</u>	666	14.7
401.bzip2	997	9.67	999	9.66	<u>999</u>	<u>9.66</u>	972	9.93	972	9.93	<u>972</u>	<u>9.93</u>
403.gcc	1001	8.05	<u>1003</u>	<u>8.03</u>	1004	8.01	975	8.26	<u>976</u>	<u>8.25</u>	977	8.24
429.mcf	660	13.8	<u>659</u>	<u>13.8</u>	659	13.8	707	12.9	<u>708</u>	<u>12.9</u>	708	12.9
445.gobmk	855	12.3	<u>855</u>	<u>12.3</u>	855	12.3	<u>757</u>	<u>13.9</u>	757	13.9	757	13.9
456.hammer	1196	7.80	<u>1196</u>	<u>7.80</u>	1196	7.80	1164	8.01	1164	8.01	<u>1164</u>	<u>8.01</u>
458.sjeng	1059	11.4	1059	11.4	<u>1059</u>	<u>11.4</u>	974	12.4	<u>975</u>	<u>12.4</u>	975	12.4
462.libquantum	1770	11.7	<u>1770</u>	<u>11.7</u>	1770	11.7	1753	11.8	<u>1752</u>	<u>11.8</u>	1752	11.8
464.h264ref	1140	19.4	1140	19.4	<u>1140</u>	<u>19.4</u>	<u>1112</u>	<u>19.9</u>	1112	19.9	1112	19.9
471.omnetpp	684	9.14	<u>682</u>	<u>9.16</u>	682	9.17	<u>620</u>	<u>10.1</u>	620	10.1	619	10.1
473.astar	783	8.96	<u>783</u>	<u>8.97</u>	783	8.97	<u>782</u>	<u>8.98</u>	782	8.98	782	8.98
483.xalancbmk	<u>485</u>	<u>14.2</u>	485	14.2	485	14.2	<u>480</u>	<u>14.4</u>	480	14.4	480	14.4

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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