



SPEC® CINT2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor 5160,3.00GHz)

SPECint®2006 = 17.4

SPECint_base2006 = 16.8

CPU2006 license: 20

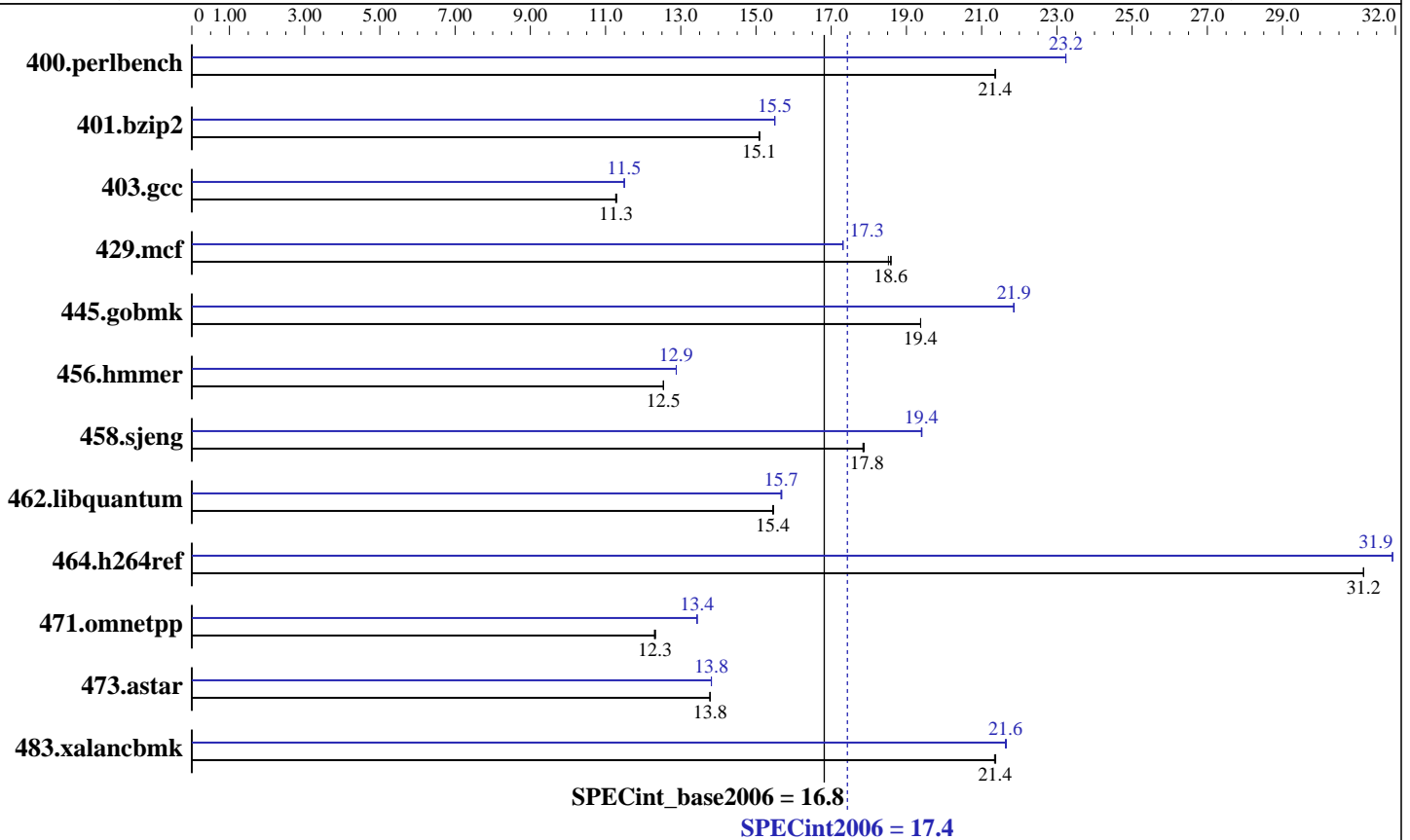
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Feb-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5160
 CPU Characteristics: 3.00 GHz, 4 MB L2, 1333 MHz system bus
 CPU MHz: 3000
 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 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	457	21.4	457	21.4	<u>457</u>	<u>21.4</u>	420	23.2	420	23.2	<u>420</u>	<u>23.2</u>
401.bzip2	639	15.1	640	15.1	<u>640</u>	<u>15.1</u>	623	15.5	<u>623</u>	<u>15.5</u>	623	15.5
403.gcc	713	11.3	<u>714</u>	<u>11.3</u>	714	11.3	700	11.5	700	11.5	<u>700</u>	<u>11.5</u>
429.mcf	492	18.5	490	18.6	<u>491</u>	<u>18.6</u>	527	17.3	<u>527</u>	<u>17.3</u>	527	17.3
445.gobmk	541	19.4	<u>541</u>	<u>19.4</u>	541	19.4	480	21.9	480	21.9	<u>480</u>	<u>21.9</u>
456.hammer	<u>744</u>	<u>12.5</u>	744	12.5	744	12.5	724	12.9	724	12.9	<u>724</u>	<u>12.9</u>
458.sjeng	<u>678</u>	<u>17.8</u>	678	17.8	677	17.9	624	19.4	<u>624</u>	<u>19.4</u>	623	19.4
462.libquantum	<u>1341</u>	<u>15.4</u>	1341	15.4	1340	15.5	1321	15.7	1323	15.7	<u>1322</u>	<u>15.7</u>
464.h264ref	710	31.2	710	31.2	<u>710</u>	<u>31.2</u>	693	31.9	<u>693</u>	<u>31.9</u>	693	31.9
471.omnetpp	<u>508</u>	<u>12.3</u>	508	12.3	507	12.3	465	13.4	<u>465</u>	<u>13.4</u>	465	13.4
473.astar	<u>509</u>	<u>13.8</u>	510	13.8	509	13.8	508	13.8	508	13.8	<u>508</u>	<u>13.8</u>
483.xalancbmk	<u>323</u>	<u>21.4</u>	323	21.3	323	21.4	<u>319</u>	<u>21.6</u>	319	21.6	319	21.7

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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