



SPEC® CINT2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor 5150,2.66GHz)

SPECint®2006 = 16.0

SPECint_base2006 = 15.4

CPU2006 license: 20

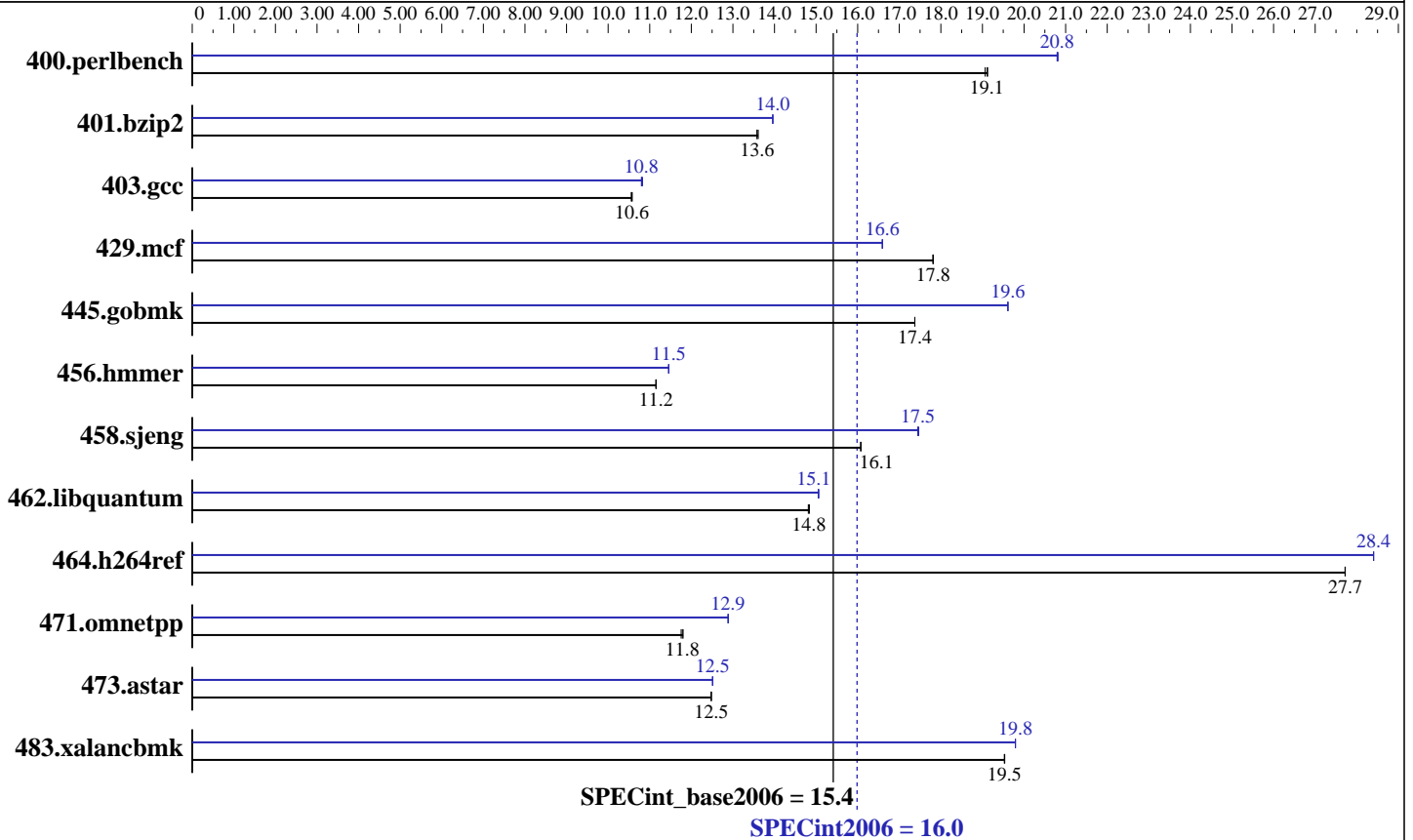
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5150
 CPU Characteristics: 2.66 GHz, 4 MB L2, 1333 MHz system bus
 CPU MHz: 2666
 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 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	513	19.1	511	19.1	<u>511</u>	<u>19.1</u>	469	20.8	470	20.8	<u>470</u>	<u>20.8</u>
401.bzip2	709	13.6	711	13.6	<u>710</u>	<u>13.6</u>	691	14.0	<u>691</u>	<u>14.0</u>	691	14.0
403.gcc	761	10.6	<u>762</u>	<u>10.6</u>	763	10.6	743	10.8	745	10.8	<u>745</u>	<u>10.8</u>
429.mcf	512	17.8	<u>512</u>	<u>17.8</u>	512	17.8	550	16.6	<u>550</u>	<u>16.6</u>	549	16.6
445.gobmk	604	17.4	604	17.4	<u>604</u>	<u>17.4</u>	535	19.6	<u>535</u>	<u>19.6</u>	535	19.6
456.hammer	<u>837</u>	<u>11.2</u>	837	11.2	837	11.2	814	11.5	<u>814</u>	<u>11.5</u>	814	11.5
458.sjeng	753	16.1	<u>753</u>	<u>16.1</u>	753	16.1	694	17.4	<u>693</u>	<u>17.5</u>	693	17.5
462.libquantum	1396	14.8	1399	14.8	<u>1397</u>	<u>14.8</u>	1377	15.1	<u>1376</u>	<u>15.1</u>	1375	15.1
464.h264ref	<u>798</u>	<u>27.7</u>	798	27.7	798	27.7	779	28.4	<u>779</u>	<u>28.4</u>	779	28.4
471.omnetpp	532	11.8	530	11.8	<u>530</u>	<u>11.8</u>	485	12.9	<u>485</u>	<u>12.9</u>	485	12.9
473.astar	563	12.5	562	12.5	<u>563</u>	<u>12.5</u>	561	12.5	<u>561</u>	<u>12.5</u>	561	12.5
483.xalancbmk	353	19.5	<u>353</u>	<u>19.5</u>	353	19.5	349	19.8	349	19.8	<u>349</u>	<u>19.8</u>

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 R460 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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