



SPEC® CINT2006 Result

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Bull SAS

NovaScale R410
(Intel Xeon processor 3040,1.86GHz)

SPECint®2006 = 12.5

SPECint_base2006 = 12.0

CPU2006 license: 20

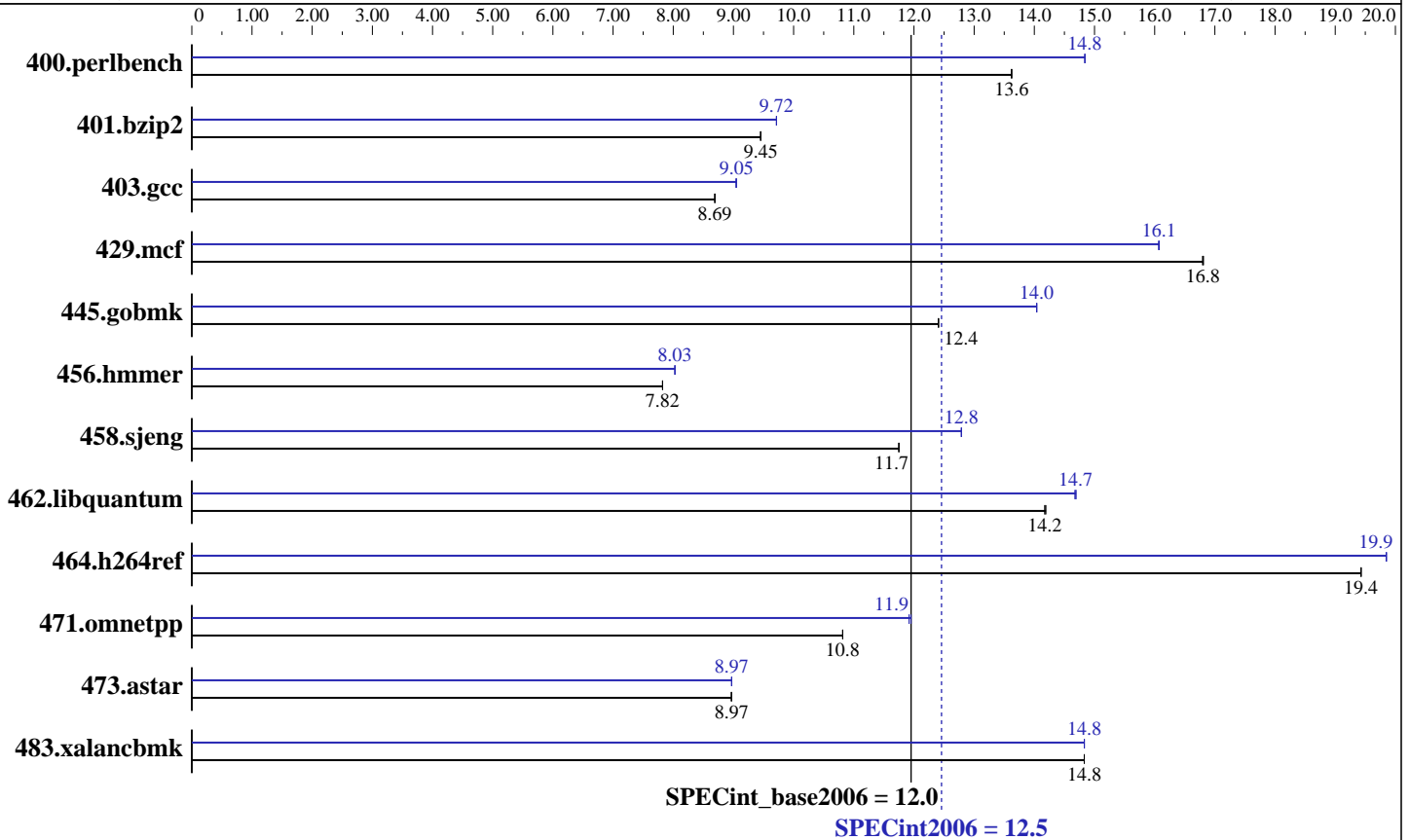
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Jun-2007

Hardware Availability: Feb-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 3040
 CPU Characteristics: 1.86 GHz, 4 MB L2, 1066 MHz system bus
 CPU MHz: 1860
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 2 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (4x2 GB) PC2-5300E ECC CL5
 Disk Subsystem: 1x80 GB SATA, 10000 RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise Edition (32 bits) 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>717</u>	<u>13.6</u>	717	13.6	717	13.6	658	14.8	<u>658</u>	<u>14.8</u>	658	14.8
401.bzip2	<u>1021</u>	<u>9.45</u>	1021	9.45	1021	9.45	993	9.71	993	9.72	<u>993</u>	<u>9.72</u>
403.gcc	926	8.69	<u>926</u>	<u>8.69</u>	926	8.69	889	9.05	<u>890</u>	<u>9.05</u>	890	9.04
429.mcf	542	16.8	<u>543</u>	<u>16.8</u>	543	16.8	<u>567</u>	<u>16.1</u>	568	16.1	567	16.1
445.gobmk	<u>846</u>	<u>12.4</u>	845	12.4	846	12.4	<u>747</u>	<u>14.0</u>	747	14.0	747	14.0
456.hammer	1193	7.82	1193	7.82	<u>1193</u>	<u>7.82</u>	1162	8.03	1162	8.03	<u>1162</u>	<u>8.03</u>
458.sjeng	<u>1030</u>	<u>11.7</u>	1030	11.8	1030	11.7	946	12.8	<u>946</u>	<u>12.8</u>	946	12.8
462.libquantum	1460	14.2	1462	14.2	<u>1462</u>	<u>14.2</u>	<u>1411</u>	<u>14.7</u>	1412	14.7	1410	14.7
464.h264ref	<u>1139</u>	<u>19.4</u>	1139	19.4	1139	19.4	1115	19.9	<u>1115</u>	<u>19.9</u>	1115	19.8
471.omnetpp	578	10.8	<u>578</u>	<u>10.8</u>	578	10.8	<u>524</u>	<u>11.9</u>	523	12.0	524	11.9
473.astar	783	8.97	783	8.97	<u>783</u>	<u>8.97</u>	783	8.97	<u>783</u>	<u>8.97</u>	783	8.97
483.xalancbmk	465	14.8	465	14.8	<u>465</u>	<u>14.8</u>	465	14.8	<u>465</u>	<u>14.8</u>	465	14.8

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 the uniprocessor environment

General Notes

Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99
C++ benchmarks:
icl -Qvc7.1

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

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

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.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/flags.20090714.xml>

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