



SPEC® CINT2006 Result

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Bull SAS

NovaScale T820
(Intel Xeon processor 3040,1.86GHz)

SPECint®2006 = 12.3

SPECint_base2006 = 11.8

CPU2006 license: 20

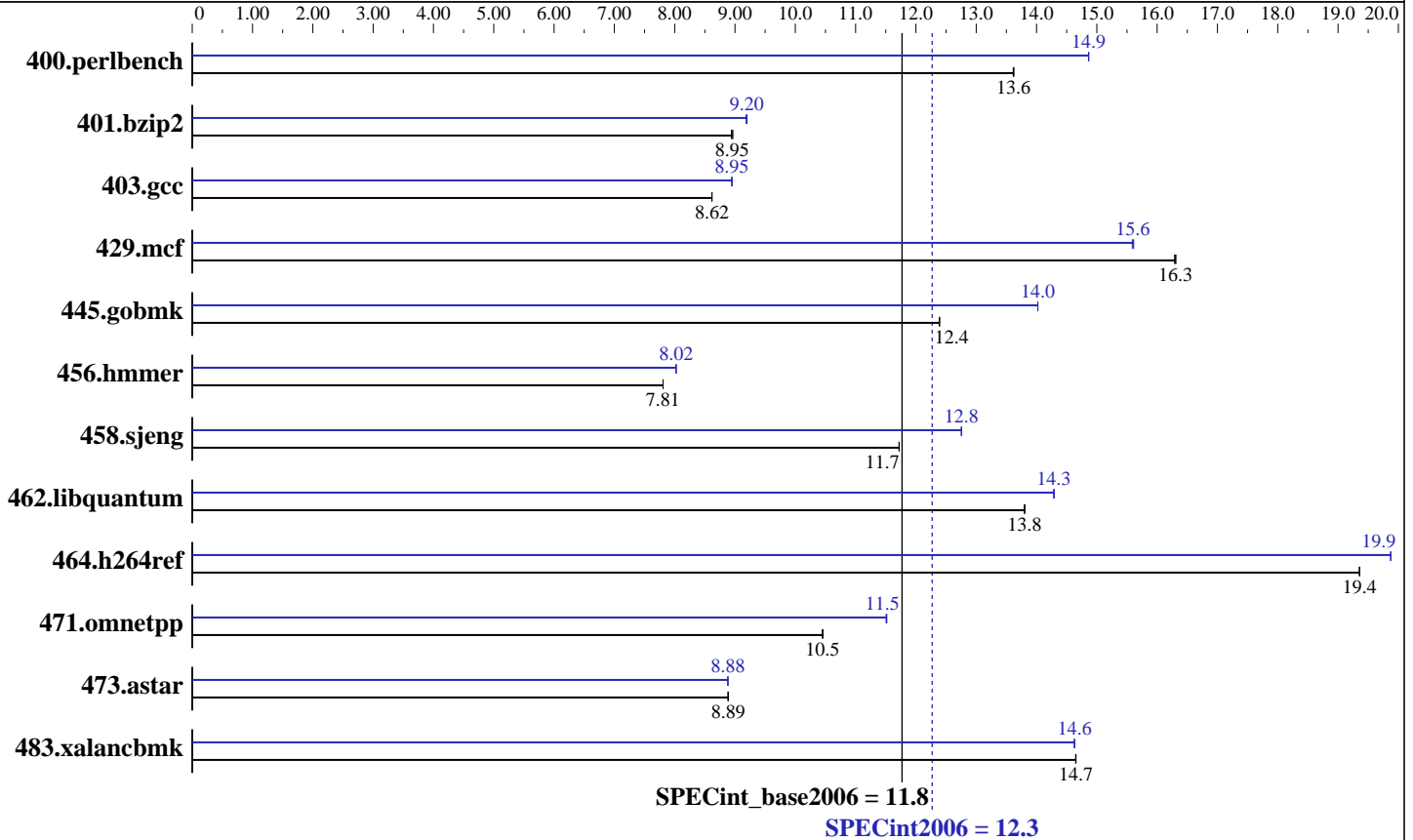
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Feb-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 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: 4 GB (4x1 GB) PC2-4200E ECC CL4
 Disk Subsystem: 1x80 GB SATA2, 7200 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	718	13.6	717	13.6	<u>717</u>	<u>13.6</u>	657	14.9	657	14.9	<u>657</u>	<u>14.9</u>
401.bzip2	1076	8.97	1079	8.94	<u>1078</u>	<u>8.95</u>	1051	9.18	<u>1049</u>	<u>9.20</u>	1049	9.20
403.gcc	<u>934</u>	<u>8.62</u>	934	8.62	934	8.62	900	8.95	<u>899</u>	<u>8.95</u>	899	8.95
429.mcf	<u>559</u>	<u>16.3</u>	560	16.3	559	16.3	584	15.6	585	15.6	<u>585</u>	<u>15.6</u>
445.gobmk	847	12.4	<u>847</u>	<u>12.4</u>	847	12.4	<u>748</u>	<u>14.0</u>	748	14.0	748	14.0
456.hmmer	1195	7.81	<u>1195</u>	<u>7.81</u>	1195	7.81	<u>1163</u>	<u>8.02</u>	1163	8.02	1163	8.02
458.sjeng	1032	11.7	<u>1032</u>	<u>11.7</u>	1032	11.7	<u>949</u>	<u>12.8</u>	949	12.8	949	12.8
462.libquantum	1501	13.8	<u>1501</u>	<u>13.8</u>	1502	13.8	1450	14.3	1450	14.3	<u>1450</u>	<u>14.3</u>
464.h264ref	1143	19.4	<u>1143</u>	<u>19.4</u>	1143	19.4	<u>1114</u>	<u>19.9</u>	1114	19.9	1113	19.9
471.omnetpp	598	10.4	<u>598</u>	<u>10.5</u>	598	10.5	543	11.5	543	11.5	<u>543</u>	<u>11.5</u>
473.astar	790	8.89	<u>790</u>	<u>8.89</u>	790	8.89	790	8.88	<u>790</u>	<u>8.88</u>	790	8.88
483.xalancbmk	471	14.7	471	14.6	<u>471</u>	<u>14.7</u>	<u>472</u>	<u>14.6</u>	472	14.6	472	14.6

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

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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