



SPEC® CINT2006 Result

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Bull SAS

NovaScale B280 (Intel Xeon processor E5320,1.86GHz)

SPECint®2006 = 11.6

SPECint_base2006 = 11.2

CPU2006 license: 20

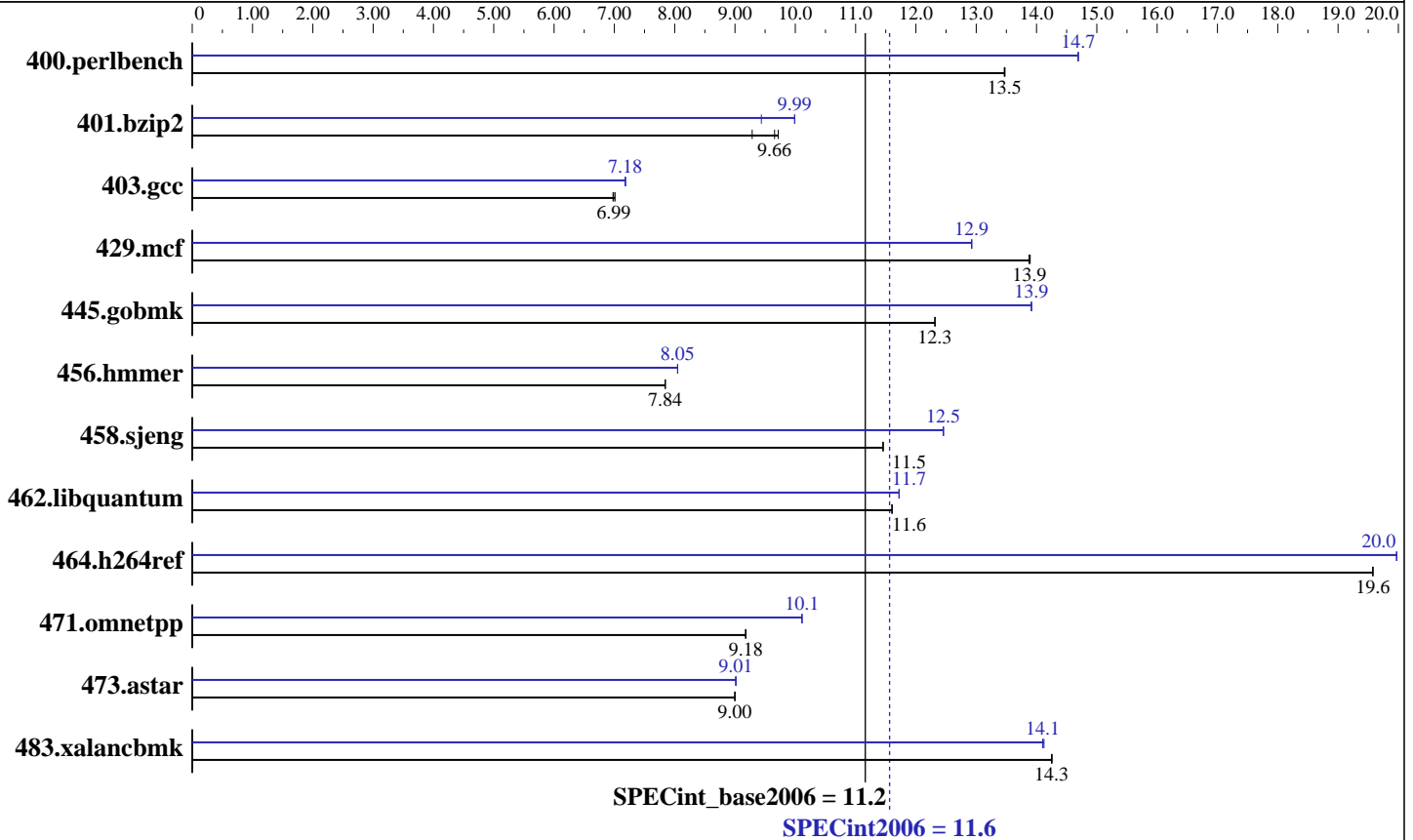
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Feb-2007

Hardware Availability: Jan-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon E5320
 CPU Characteristics: 1.86 GHz, 8MB L2, 1066MHz bus
 CPU MHz: 1860
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 4 cores/chip
 CPU(s) orderable: 1 to 2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (1GB DIMMx8, FB-DIMM PC2-5300F ECC CL5)
 Disk Subsystem: 73 GB SAS, 10000RPM
 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>725</u>	<u>13.5</u>	725	13.5	726	13.5	665	14.7	<u>665</u>	<u>14.7</u>	665	14.7
401.bzip2	<u>999</u>	<u>9.66</u>	1039	9.29	993	9.72	<u>966</u>	<u>9.99</u>	1023	9.44	966	9.99
403.gcc	1148	7.01	<u>1152</u>	<u>6.99</u>	1154	6.98	1120	7.19	<u>1122</u>	<u>7.18</u>	1122	7.18
429.mcf	656	13.9	<u>657</u>	<u>13.9</u>	657	13.9	706	12.9	<u>706</u>	<u>12.9</u>	706	12.9
445.gobmk	<u>852</u>	<u>12.3</u>	852	12.3	852	12.3	<u>754</u>	<u>13.9</u>	754	13.9	754	13.9
456.hammer	<u>1190</u>	<u>7.84</u>	1190	7.84	1190	7.84	1159	8.05	1159	8.05	<u>1159</u>	<u>8.05</u>
458.sjeng	<u>1056</u>	<u>11.5</u>	1056	11.5	1057	11.5	971	12.5	972	12.5	<u>971</u>	<u>12.5</u>
462.libquantum	<u>1785</u>	<u>11.6</u>	1785	11.6	1786	11.6	1768	11.7	<u>1768</u>	<u>11.7</u>	1768	11.7
464.h264ref	1130	19.6	<u>1130</u>	<u>19.6</u>	1131	19.6	1108	20.0	<u>1108</u>	<u>20.0</u>	1108	20.0
471.omnetpp	<u>681</u>	<u>9.18</u>	681	9.18	681	9.18	618	10.1	<u>618</u>	<u>10.1</u>	618	10.1
473.astar	780	9.00	<u>780</u>	<u>9.00</u>	780	9.00	779	9.01	779	9.02	<u>779</u>	<u>9.01</u>
483.xalancbmk	484	14.3	484	14.2	<u>484</u>	<u>14.3</u>	489	14.1	<u>489</u>	<u>14.1</u>	489	14.1

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

Other Configuration Notes
/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment

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

Base Optimization Flags

C benchmarks:
-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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Base Optimization Flags (Continued)

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:
403.gcc: -Dalloca=_alloca



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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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