



SPEC® CINT2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor E5320,1.86GHz)

SPECint®2006 = 11.9

SPECint_base2006 = 11.4

CPU2006 license: 20

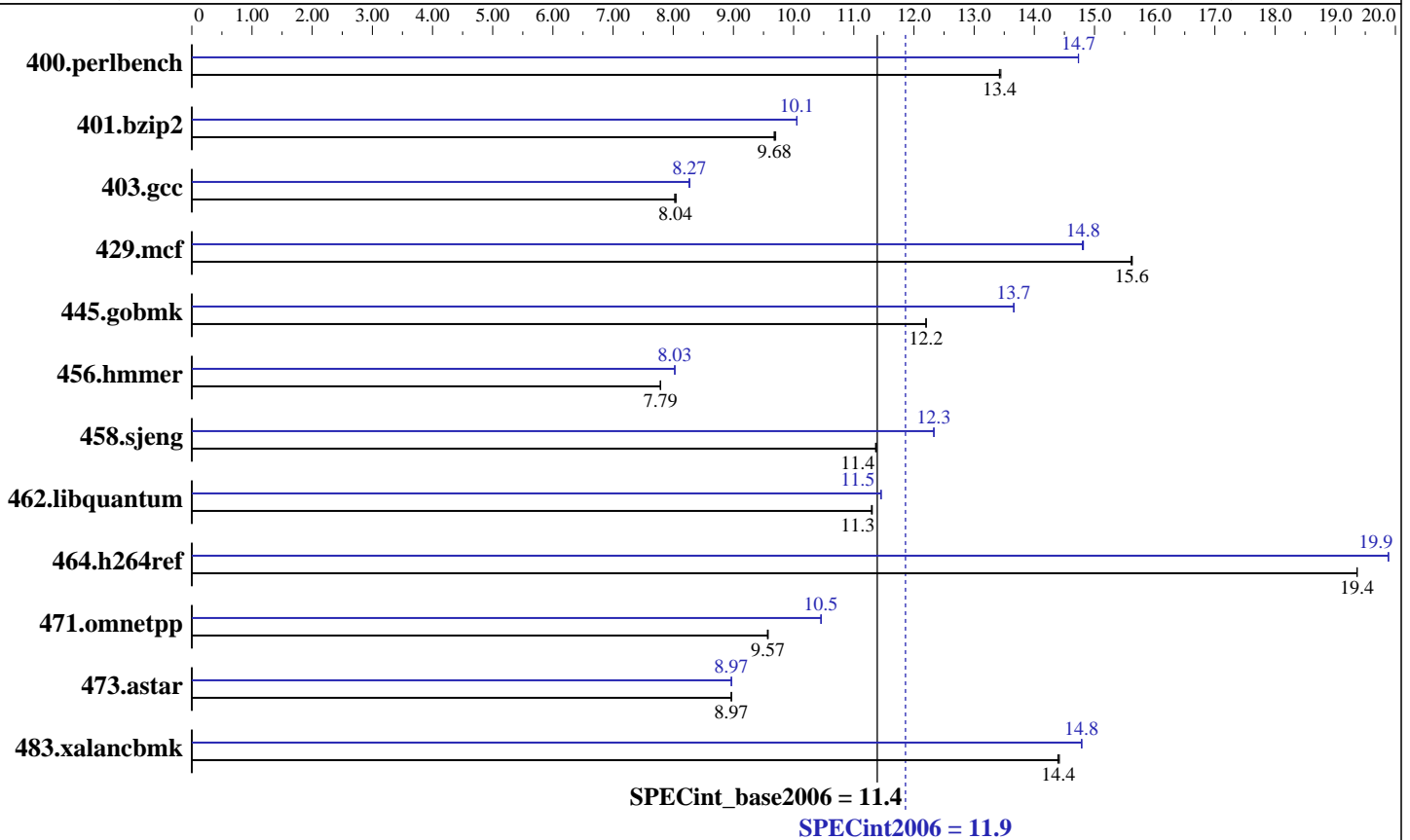
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Apr-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon E5320
 CPU Characteristics: 1.86 GHz, 8 MB L2, 1066 MHz 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: 12 GB (12x1 GB) FB-DIMM PC2-5300F ECC CL5
 Disk Subsystem: 1x73 GB SAS, 10000 RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise 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	727	13.4	<u>728</u>	<u>13.4</u>	728	13.4	663	14.7	663	14.7	<u>663</u>	<u>14.7</u>
401.bzip2	995	9.70	997	9.68	<u>997</u>	<u>9.68</u>	960	10.1	960	10.1	<u>960</u>	<u>10.1</u>
403.gcc	1000	8.05	<u>1002</u>	<u>8.04</u>	1003	8.02	973	8.27	<u>974</u>	<u>8.27</u>	974	8.26
429.mcf	<u>584</u>	<u>15.6</u>	584	15.6	584	15.6	616	14.8	616	14.8	<u>616</u>	<u>14.8</u>
445.gobmk	<u>860</u>	<u>12.2</u>	860	12.2	860	12.2	768	13.7	<u>768</u>	<u>13.7</u>	768	13.7
456.hammer	<u>1198</u>	<u>7.79</u>	1198	7.79	1198	7.79	<u>1163</u>	<u>8.03</u>	1163	8.03	1162	8.03
458.sjeng	1065	11.4	<u>1064</u>	<u>11.4</u>	1064	11.4	981	12.3	981	12.3	<u>981</u>	<u>12.3</u>
462.libquantum	1835	11.3	<u>1834</u>	<u>11.3</u>	1832	11.3	1809	11.5	<u>1809</u>	<u>11.5</u>	1809	11.5
464.h264ref	1143	19.4	1143	19.4	<u>1143</u>	<u>19.4</u>	<u>1113</u>	<u>19.9</u>	1113	19.9	1113	19.9
471.omnetpp	653	9.56	<u>653</u>	<u>9.57</u>	653	9.58	<u>598</u>	<u>10.5</u>	598	10.5	598	10.5
473.astar	783	8.96	783	8.97	<u>783</u>	<u>8.97</u>	<u>783</u>	<u>8.97</u>	783	8.97	783	8.97
483.xalancbmk	479	14.4	<u>479</u>	<u>14.4</u>	479	14.4	467	14.8	<u>467</u>	<u>14.8</u>	467	14.8

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

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

Continued on next page



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Base Portability Flags (Continued)

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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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 11:44:38 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 29 May 2007.