



SPEC® CINT2006 Result

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Bull SAS

NovaScale R460
(Intel Xeon processor X5355,2.66GHz)

SPECint®2006 = 16.0

SPECint_base2006 = 15.4

CPU2006 license: 20

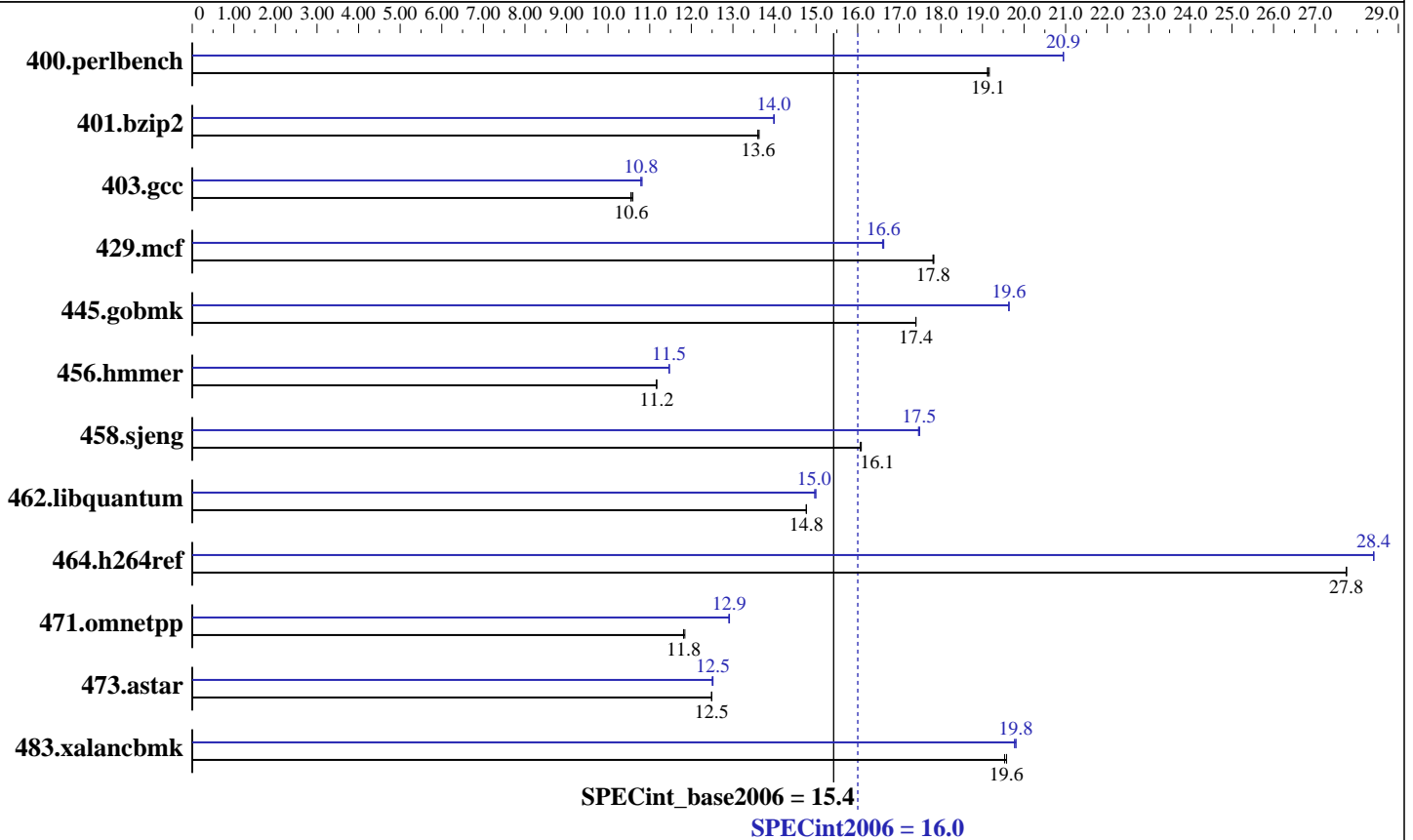
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: 2.66 GHz, 8 MB L2, 1333 MHz bus
 CPU MHz: 2666
 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: 24 GB (12x2 GB) FB-DIMM PC2-5300F ECC CL5
 Disk Subsystem: 1x73 GB SAS, 10000 RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 R2 Enterprise X64 Edition 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	510	19.2	<u>511</u>	<u>19.1</u>	511	19.1	467	20.9	466	20.9	<u>466</u>	<u>20.9</u>
401.bzip2	708	13.6	710	13.6	<u>709</u>	<u>13.6</u>	<u>690</u>	<u>14.0</u>	690	14.0	690	14.0
403.gcc	760	10.6	<u>762</u>	<u>10.6</u>	763	10.5	744	10.8	746	10.8	<u>746</u>	<u>10.8</u>
429.mcf	<u>512</u>	<u>17.8</u>	512	17.8	511	17.8	549	16.6	549	16.6	<u>549</u>	<u>16.6</u>
445.gobmk	<u>603</u>	<u>17.4</u>	603	17.4	603	17.4	<u>534</u>	<u>19.6</u>	534	19.6	534	19.6
456.hammer	836	11.2	836	11.2	<u>836</u>	<u>11.2</u>	814	11.5	<u>814</u>	<u>11.5</u>	814	11.5
458.sjeng	<u>753</u>	<u>16.1</u>	753	16.1	752	16.1	692	17.5	693	17.5	<u>692</u>	<u>17.5</u>
462.libquantum	1403	14.8	<u>1403</u>	<u>14.8</u>	1403	14.8	1382	15.0	<u>1382</u>	<u>15.0</u>	1385	15.0
464.h264ref	797	27.8	<u>797</u>	<u>27.8</u>	797	27.8	<u>779</u>	<u>28.4</u>	779	28.4	779	28.4
471.omnetpp	<u>529</u>	<u>11.8</u>	529	11.8	528	11.8	484	12.9	484	12.9	<u>484</u>	<u>12.9</u>
473.astar	562	12.5	562	12.5	<u>562</u>	<u>12.5</u>	562	12.5	561	12.5	<u>561</u>	<u>12.5</u>
483.xalancbmk	<u>352</u>	<u>19.6</u>	353	19.5	352	19.6	349	19.8	<u>348</u>	<u>19.8</u>	348	19.8

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 uniprocessor environment

General Notes

The NovaScale R440 and the NovaScale R460 models are electronically equivalent.
The results have been measured on a NovaScale R440 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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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 11:41:43 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 29 May 2007.