



SPEC® CINT2006 Result

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Bull SAS

NovaScale R460
(Intel Xeon processor E5345,2.33GHz)

SPECint®_rate2006 = 72.9

SPECint_rate_base2006 = 70.7

CPU2006 license: 20

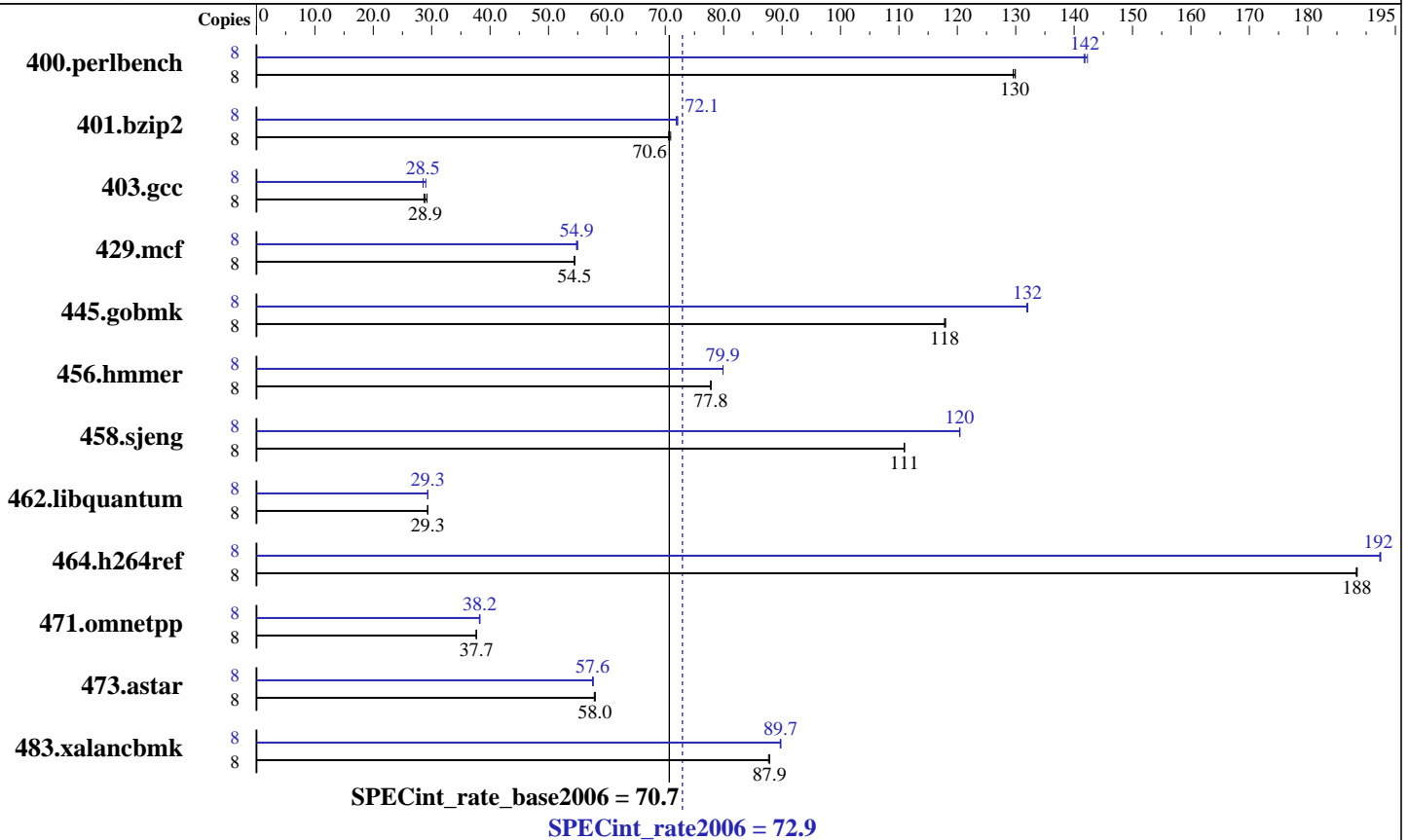
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Apr-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon E5345
 CPU Characteristics: 2.33 GHz, 8MB L2, 1333MHz bus
 CPU MHz: 2330
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 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 (2GB DIMMx12, FB-DIMM PC2-5300F ECC CL5)
 Disk Subsystem: 73 GB SAS, 10000RPM
 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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	602	130	603	130	601	130	8	549	142	552	142	551	142
401.bzip2	8	1093	70.6	1088	70.9	1093	70.6	8	1071	72.1	1071	72.1	1074	71.9
403.gcc	8	2205	29.2	2246	28.7	2229	28.9	8	2258	28.5	2257	28.5	2221	29.0
429.mcf	8	1340	54.4	1340	54.5	1338	54.5	8	1331	54.8	1326	55.0	1330	54.9
445.gobmk	8	712	118	711	118	712	118	8	636	132	635	132	636	132
456.hammer	8	959	77.8	959	77.8	960	77.8	8	934	79.9	934	79.9	934	79.9
458.sjeng	8	873	111	873	111	873	111	8	804	120	804	120	804	120
462.libquantum	8	5654	29.3	5654	29.3	5650	29.3	8	5649	29.3	5651	29.3	5651	29.3
464.h264ref	8	940	188	940	188	939	188	8	920	192	920	193	920	192
471.omnetpp	8	1329	37.6	1328	37.7	1327	37.7	8	1307	38.2	1308	38.2	1310	38.2
473.astar	8	969	58.0	968	58.0	971	57.8	8	976	57.6	974	57.7	975	57.6
483.xalancbmk	8	628	87.9	628	87.9	630	87.7	8	616	89.7	615	89.7	615	89.8

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

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

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:

Continued on next page



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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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