



SPEC® CINT2006 Result

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Bull SAS

NovaScale T840
(Intel Xeon processor E5345,2.33GHz)

SPECint®2006 = 14.3

SPECint_base2006 = 13.7

CPU2006 license: 20

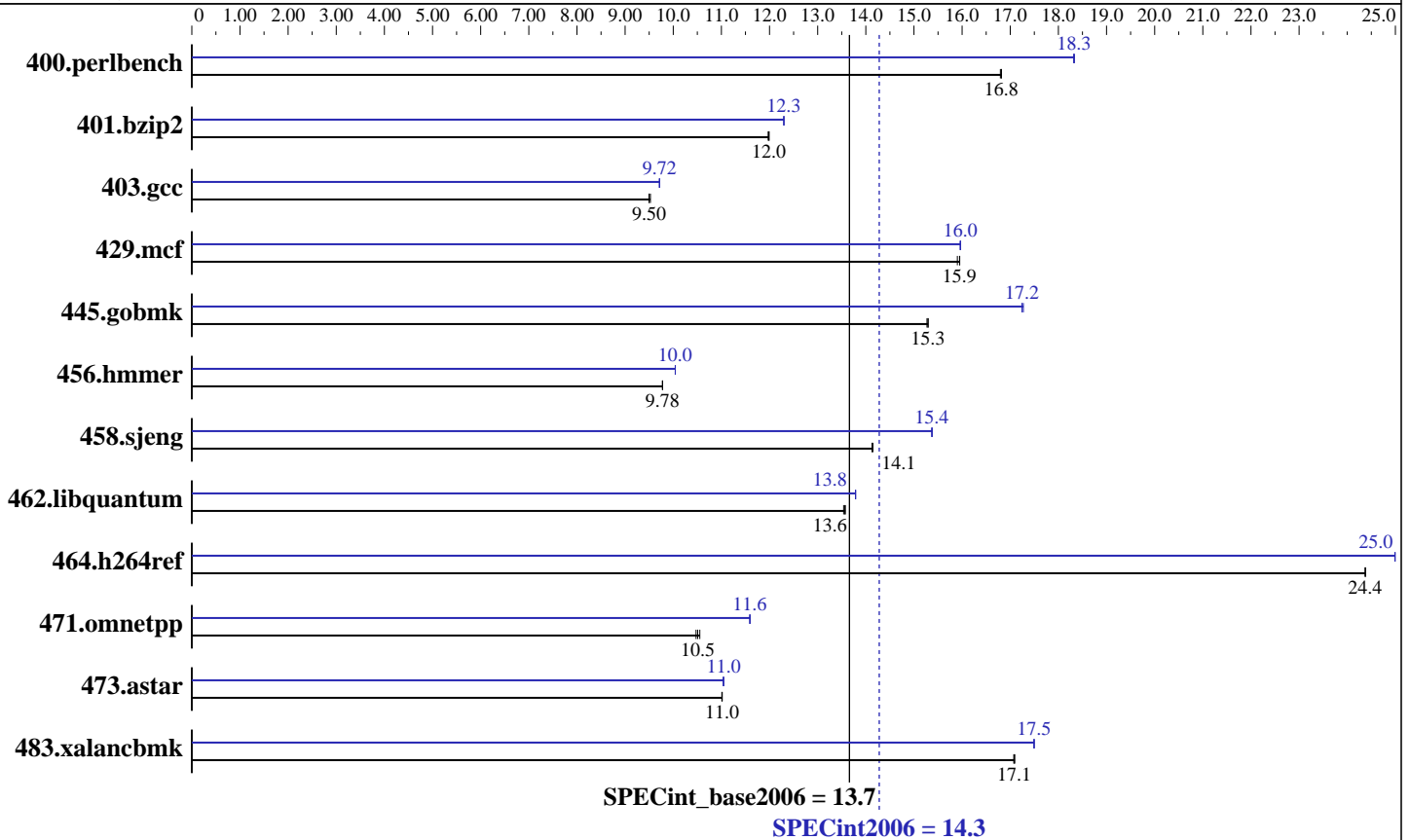
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Nov-2006

Software Availability: Mar-2007



Hardware

CPU Name: Intel Xeon E5345
 CPU Characteristics: 2.33 GHz, 8 MB L2, 1333 MHz bus
 CPU MHz: 2330
 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: 16 GB (2x8 GB) FB-DIMM PC2-5300F ECC CL5
 Disk Subsystem: 3x73 GB SCSI, 15000 RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise X64 Edition
 Compiler: Intel C++ Compiler for IA32 version 9.1
 Build 20070322Z Package ID: W_CC_P_9.1.037
 Microsoft Visual Studio .NET 2003 (libraries)
 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	581	16.8	<u>581</u>	<u>16.8</u>	582	16.8	533	18.3	533	18.3	<u>533</u>	<u>18.3</u>
401.bzip2	<u>805</u>	<u>12.0</u>	805	12.0	806	12.0	785	12.3	<u>785</u>	<u>12.3</u>	785	12.3
403.gcc	845	9.53	<u>847</u>	<u>9.50</u>	848	9.50	<u>829</u>	<u>9.72</u>	828	9.72	829	9.71
429.mcf	574	15.9	572	16.0	<u>572</u>	<u>15.9</u>	572	16.0	<u>571</u>	<u>16.0</u>	571	16.0
445.gobmk	<u>686</u>	<u>15.3</u>	687	15.3	686	15.3	<u>608</u>	<u>17.2</u>	607	17.3	608	17.2
456.hammer	<u>954</u>	<u>9.78</u>	954	9.78	954	9.78	929	10.0	<u>929</u>	<u>10.0</u>	929	10.0
458.sjeng	856	14.1	<u>856</u>	<u>14.1</u>	855	14.1	787	15.4	<u>787</u>	<u>15.4</u>	787	15.4
462.libquantum	1530	13.5	<u>1528</u>	<u>13.6</u>	1526	13.6	<u>1503</u>	<u>13.8</u>	1503	13.8	1503	13.8
464.h264ref	<u>908</u>	<u>24.4</u>	908	24.4	908	24.4	886	25.0	885	25.0	<u>885</u>	<u>25.0</u>
471.omnetpp	597	10.5	<u>595</u>	<u>10.5</u>	592	10.6	539	11.6	<u>539</u>	<u>11.6</u>	539	11.6
473.astar	638	11.0	<u>637</u>	<u>11.0</u>	637	11.0	635	11.0	636	11.0	<u>635</u>	<u>11.0</u>
483.xalancbmk	404	17.1	<u>404</u>	<u>17.1</u>	404	17.1	394	17.5	394	17.5	<u>394</u>	<u>17.5</u>

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:

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: Same as 400.perlbench

403.gcc: Same as 400.perlbench

429.mcf: -fast /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

445.gobmk: Same as 400.perlbench

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Peak Optimization Flags (Continued)

456.hmmmer: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

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

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.

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