



SPEC® CINT2006 Result

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Bull SAS

SPECint®2006 = 11.5

NovaScale T840 (1.86 GHz, Intel Xeon E5320)

SPECint_base2006 = 11.0

CPU2006 license: 20

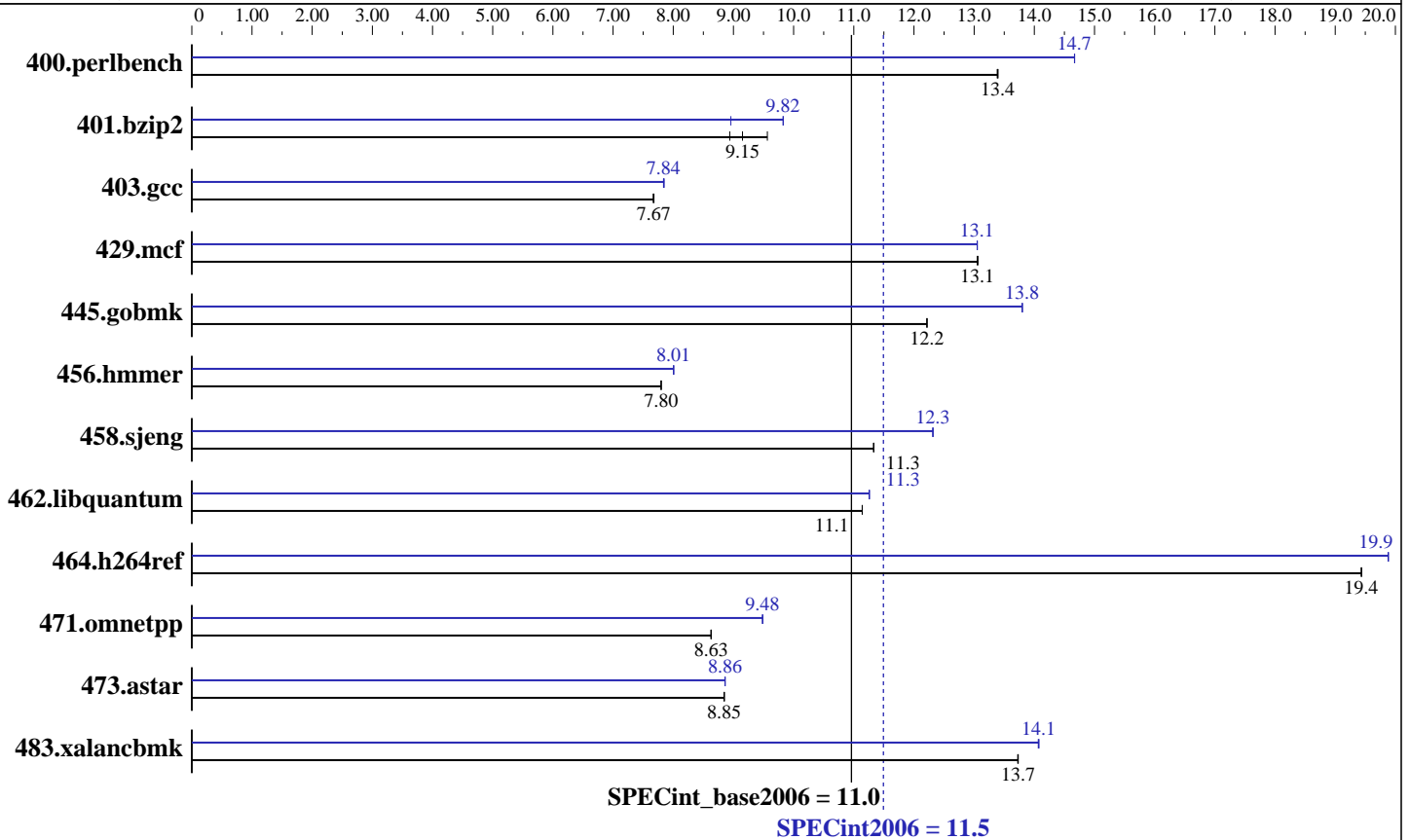
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Mar-2007

Hardware Availability: Jan-2007

Software Availability: Nov-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: 1,2 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 (667 MHz ECC CL5 DDR2 FB-DIMM)
 Disk Subsystem: 3x73GB SCSI 15000 rpm
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise X64 Edition
 Compiler: Intel C++ Compiler 9.1.033 for 32-bit apps, Build 20061103Z Package ID: W_CC_P_9.1.033 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 | 730 | 13.4 | 729 | 13.4 | <u>730</u> | <u>13.4</u> | <u>666</u> | <u>14.7</u> | 666 | 14.7 | 666 | 14.7 |
| 401.bzip2 | <u>1055</u> | <u>9.15</u> | 1080 | 8.94 | 1009 | 9.56 | 982 | 9.83 | 1077 | 8.96 | <u>982</u> | <u>9.82</u> |
| 403.gcc | 1048 | 7.68 | 1050 | 7.67 | <u>1049</u> | <u>7.67</u> | 1026 | 7.85 | 1027 | 7.84 | <u>1027</u> | <u>7.84</u> |
| 429.mcf | 698 | 13.1 | <u>699</u> | <u>13.1</u> | 699 | 13.1 | 699 | 13.1 | <u>699</u> | <u>13.1</u> | 699 | 13.1 |
| 445.gobmk | 859 | 12.2 | <u>859</u> | <u>12.2</u> | 859 | 12.2 | 760 | 13.8 | 760 | 13.8 | <u>760</u> | <u>13.8</u> |
| 456.hmmer | <u>1196</u> | <u>7.80</u> | 1196 | 7.80 | 1196 | 7.80 | 1165 | 8.01 | 1165 | 8.01 | <u>1165</u> | <u>8.01</u> |
| 458.sjeng | 1068 | 11.3 | 1068 | 11.3 | <u>1068</u> | <u>11.3</u> | 982 | 12.3 | <u>983</u> | <u>12.3</u> | 983 | 12.3 |
| 462.libquantum | 1860 | 11.1 | 1860 | 11.1 | <u>1860</u> | <u>11.1</u> | 1840 | 11.3 | 1841 | 11.3 | <u>1841</u> | <u>11.3</u> |
| 464.h264ref | 1139 | 19.4 | 1139 | 19.4 | <u>1139</u> | <u>19.4</u> | 1113 | 19.9 | 1113 | 19.9 | <u>1113</u> | <u>19.9</u> |
| 471.omnetpp | <u>724</u> | <u>8.63</u> | 724 | 8.63 | 724 | 8.63 | 659 | 9.49 | <u>659</u> | <u>9.48</u> | 659 | 9.48 |
| 473.astar | <u>794</u> | <u>8.85</u> | 793 | 8.85 | 794 | 8.85 | 792 | 8.86 | 792 | 8.86 | <u>792</u> | <u>8.86</u> |
| 483.xalancbmk | <u>503</u> | <u>13.7</u> | 503 | 13.7 | 502 | 13.7 | 490 | 14.1 | <u>490</u> | <u>14.1</u> | 491 | 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

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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:

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

401.bzip2: Same as 400.perlbench

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Peak Optimization Flags (Continued)

403.gcc: Same as 400.perlbench

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

445.gobmk: Same as 400.perlbench

456.hmmer: 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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