



SPEC® CINT2006 Result

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Bull SAS

SPECint®2006 = 10.2

NovaScale T880 (3.20 GHz, Intel Xeon 7130M)

SPECint_base2006 = 9.70

CPU2006 license: 20

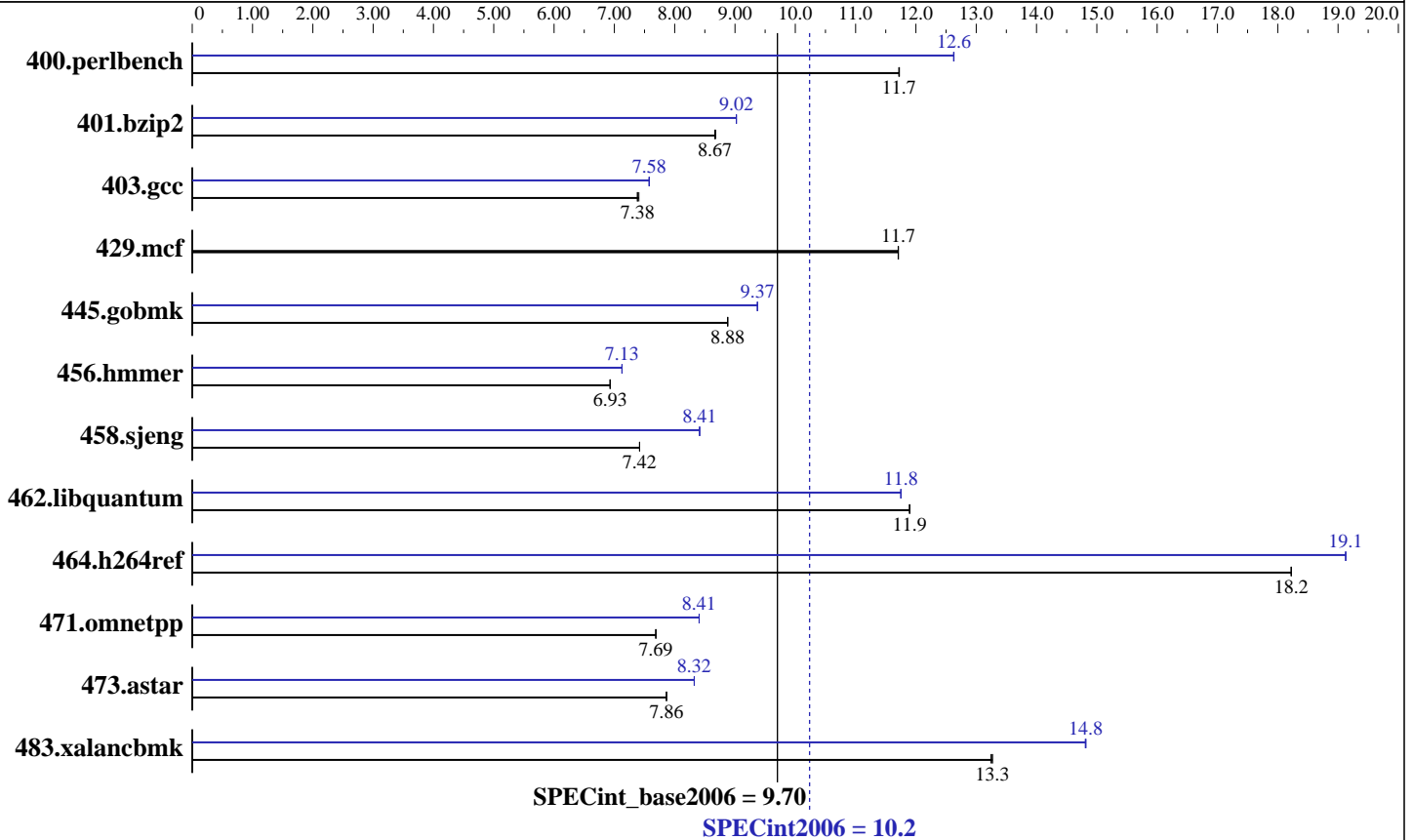
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Mar-2007

Hardware Availability: Sep-2006

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon 7130M
 CPU Characteristics: 3.2GHz, 800MHz bus
 CPU MHz: 3200
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
 CPU(s) orderable: 1,2,4 chips
 Primary Cache: 12 K micro-ops I + 16 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core
 L3 Cache: 8 MB I+D on chip per chip
 Other Cache: None
 Memory: 32 GB (667 MHz ECC CL5 DDR2 FB-DIMM)
 Disk Subsystem: 2x36GB SAS 15000 rpm
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise X64 Edition
 Compiler: Intel C++ Compiler 9.1 for 32-bit
 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	833	11.7	834	11.7	<u>834</u>	<u>11.7</u>	<u>774</u>	<u>12.6</u>	773	12.6	774	12.6
401.bzip2	1112	8.68	1114	8.67	<u>1113</u>	<u>8.67</u>	1070	9.02	1069	9.02	<u>1070</u>	<u>9.02</u>
403.gcc	1087	7.41	<u>1090</u>	<u>7.38</u>	1090	7.38	1062	7.58	<u>1062</u>	<u>7.58</u>	1063	7.57
429.mcf	<u>779</u>	<u>11.7</u>	779	11.7	779	11.7	<u>779</u>	<u>11.7</u>	779	11.7	779	11.7
445.gobmk	<u>1181</u>	<u>8.88</u>	1181	8.88	1181	8.88	<u>1119</u>	<u>9.37</u>	1119	9.37	1119	9.37
456.hammer	1346	6.93	<u>1346</u>	<u>6.93</u>	1346	6.93	<u>1309</u>	<u>7.13</u>	1309	7.13	1309	7.13
458.sjeng	1631	7.42	<u>1631</u>	<u>7.42</u>	1631	7.42	1438	8.41	<u>1438</u>	<u>8.41</u>	1438	8.41
462.libquantum	1742	11.9	1741	11.9	<u>1742</u>	<u>11.9</u>	1763	11.8	<u>1763</u>	<u>11.8</u>	1763	11.7
464.h264ref	<u>1214</u>	<u>18.2</u>	1214	18.2	1214	18.2	<u>1157</u>	<u>19.1</u>	1157	19.1	1157	19.1
471.omnetpp	<u>813</u>	<u>7.69</u>	813	7.69	813	7.69	743	8.41	<u>744</u>	<u>8.41</u>	744	8.41
473.astar	<u>893</u>	<u>7.86</u>	893	7.86	893	7.86	843	8.32	<u>843</u>	<u>8.32</u>	843	8.32
483.xalancbmk	521	13.2	<u>520</u>	<u>13.3</u>	520	13.3	466	14.8	466	14.8	<u>466</u>	<u>14.8</u>

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 T880 and the NovaScale R480 models are electronically equivalent.
The results have been measured on a NovaScale R480 model.

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: basepeak = yes

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 questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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