



SPEC[®] CINT2006 Result

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Bull SAS

SPECint[®]2006 = **9.24**

NovaScale T880 (3.0 GHz, Intel Xeon 7120M)

SPECint_base2006 = **8.74**

CPU2006 license: 20

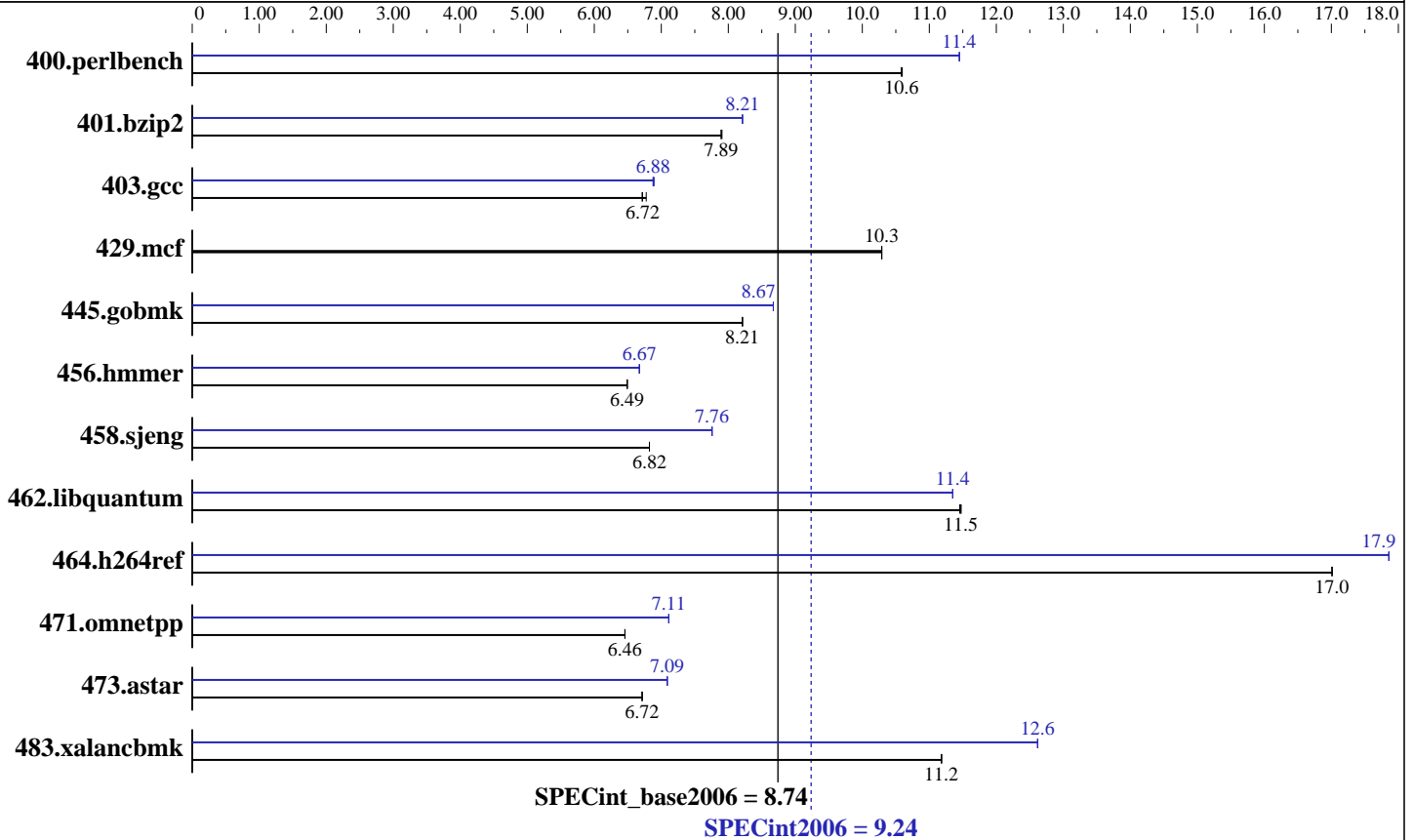
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Sep-2006

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon 7120M
 CPU Characteristics: 3.0 GHz, 800 MHz bus
 CPU MHz: 3000
 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: 4 MB I+D on chip per chip
 Other Cache: None
 Memory: 32 GB (16x2 GB) DDR2 400 PC2-3200R-333
 Disk Subsystem: 2x36 GB SAS 15000 RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise X64 Edition
 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	922	10.6	923	10.6	<u>923</u>	<u>10.6</u>	853	11.4	853	11.5	<u>853</u>	<u>11.4</u>
401.bzip2	1221	7.91	1223	7.89	<u>1222</u>	<u>7.89</u>	1175	8.21	1175	8.21	<u>1175</u>	<u>8.21</u>
403.gcc	1188	6.78	<u>1198</u>	<u>6.72</u>	1199	6.71	1168	6.89	<u>1170</u>	<u>6.88</u>	1171	6.88
429.mcf	886	10.3	886	10.3	<u>886</u>	<u>10.3</u>	886	10.3	886	10.3	<u>886</u>	<u>10.3</u>
445.gobmk	1277	8.21	1278	8.21	<u>1278</u>	<u>8.21</u>	<u>1210</u>	<u>8.67</u>	1210	8.67	1210	8.67
456.hammer	1437	6.49	1437	6.49	<u>1437</u>	<u>6.49</u>	1398	6.67	1398	6.67	<u>1398</u>	<u>6.67</u>
458.sjeng	1774	6.82	<u>1773</u>	<u>6.82</u>	1773	6.82	1560	7.76	1560	7.76	<u>1560</u>	<u>7.76</u>
462.libquantum	1809	11.5	<u>1806</u>	<u>11.5</u>	1806	11.5	1826	11.3	1825	11.4	<u>1825</u>	<u>11.4</u>
464.h264ref	<u>1301</u>	<u>17.0</u>	1301	17.0	1301	17.0	<u>1239</u>	<u>17.9</u>	1239	17.9	1239	17.9
471.omnetpp	<u>968</u>	<u>6.46</u>	968	6.46	968	6.46	<u>879</u>	<u>7.11</u>	879	7.11	879	7.11
473.astar	<u>1045</u>	<u>6.72</u>	1046	6.71	1045	6.72	990	7.09	<u>990</u>	<u>7.09</u>	990	7.09
483.xalancbmk	617	11.2	617	11.2	<u>617</u>	<u>11.2</u>	547	12.6	<u>547</u>	<u>12.6</u>	547	12.6

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
Hyper-Threading technology was disabled in the Bios.

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
```



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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:

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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