



SPEC® CINT2006 Result

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Bull SAS

SPECint®2006 = 8.19

NovaScale T880 (2.60 GHz, Intel Xeon 7110M)

SPECint_base2006 = 7.75

CPU2006 license: 20

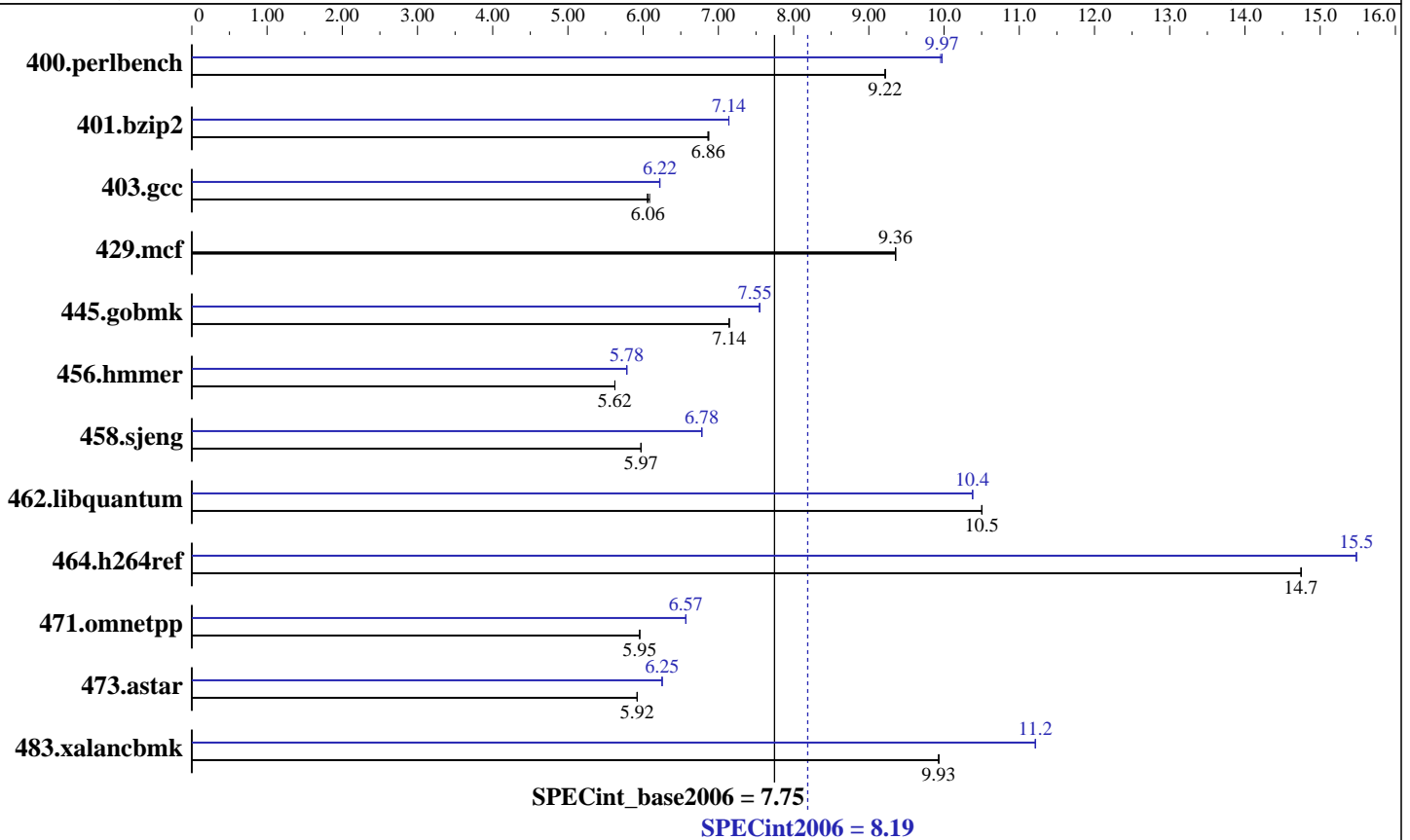
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Apr-2007

Hardware Availability: Sep-2006

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon 7110M
 CPU Characteristics: 2.6 GHz, 800 MHz bus
 CPU MHz: 2600
 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	1059	9.22	1060	9.21	1060	9.22	980	9.97	980	9.97	981	9.95
401.bzip2	1404	6.87	1406	6.86	1406	6.86	1352	7.14	1352	7.14	1352	7.14
403.gcc	1323	6.09	1328	6.06	1329	6.06	1294	6.22	1294	6.22	1295	6.22
429.mcf	975	9.36	975	9.36	975	9.35	975	9.36	975	9.36	975	9.35
445.gobmk	1469	7.14	1468	7.15	1468	7.14	1390	7.55	1390	7.55	1390	7.55
456.hammer	1659	5.62	1659	5.62	1659	5.62	1613	5.78	1613	5.78	1613	5.78
458.sjeng	2026	5.97	2026	5.97	2026	5.97	1785	6.78	1785	6.78	1785	6.78
462.libquantum	1973	10.5	1973	10.5	1973	10.5	1996	10.4	1996	10.4	1996	10.4
464.h264ref	1500	14.7	1501	14.7	1501	14.7	1429	15.5	1429	15.5	1430	15.5
471.omnetpp	1050	5.95	1050	5.95	1050	5.95	952	6.57	952	6.57	952	6.57
473.astar	1186	5.92	1186	5.92	1186	5.92	1123	6.25	1123	6.25	1123	6.25
483.xalancbmk	695	9.93	695	9.93	695	9.93	615	11.2	615	11.2	615	11.2

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

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